Cisco Catalyst IR1800 Rugged Series Routers

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Cisco Catalyst IR1800 Rugged Series Routers deliver performance, security, and flexibility to help you accelerate your digitization journey at the edge.

Product overview

Cisco Catalyst IR1800 Rugged Series Routers are Cisco IoT's most versatile routers, offering

advanced security capabilities such as Next-Generation Firewall (NGFW). They deliver secure, high-performance, 5G routers in a modular design that support private LTE, FirstNet, Verizon Frontline, and Gigabit Ethernet. Designed with a high level of modularity, they can be customized to help you reduce costs and make your networking investments ready for the future, keeping in mind the needs of tomorrow. With high bandwidth and throughput from 5G, they enable you to connect all your assets, converge networks and drive efficiency.

The Catalyst IR1800 Series offers enterprise-grade security from the hardware to the network communications all the way to the industrial assets. The routers are powered by Cisco IOS ® XE, Cisco's fully programmable next-generation operating system.

Scale and simplify operations at the edge with powerful network management tools such as Cisco SD-WAN Manager and Cisco Catalyst Center for configuration, monitoring, and troubleshooting.

IR1800 supports Cisco ThousandEyes Assurance, allowing you to proactively monitor your network with end-to-end visibility all the way to the industrial edge, and Cisco Cyber Vision, for discovery of everything connected to your industrial network, assessment of OT security posture, and adaptive network segmentation to drive efficient OT security at scale.

The IR1800 Series is built to withstand the harsh environments found in remote and harsh places renewable energy, remote. by providing reliable, rugged connectivity for stationary assets such as oil and gas equipment, solar and wind farms, ATM machines and EV charging stations.

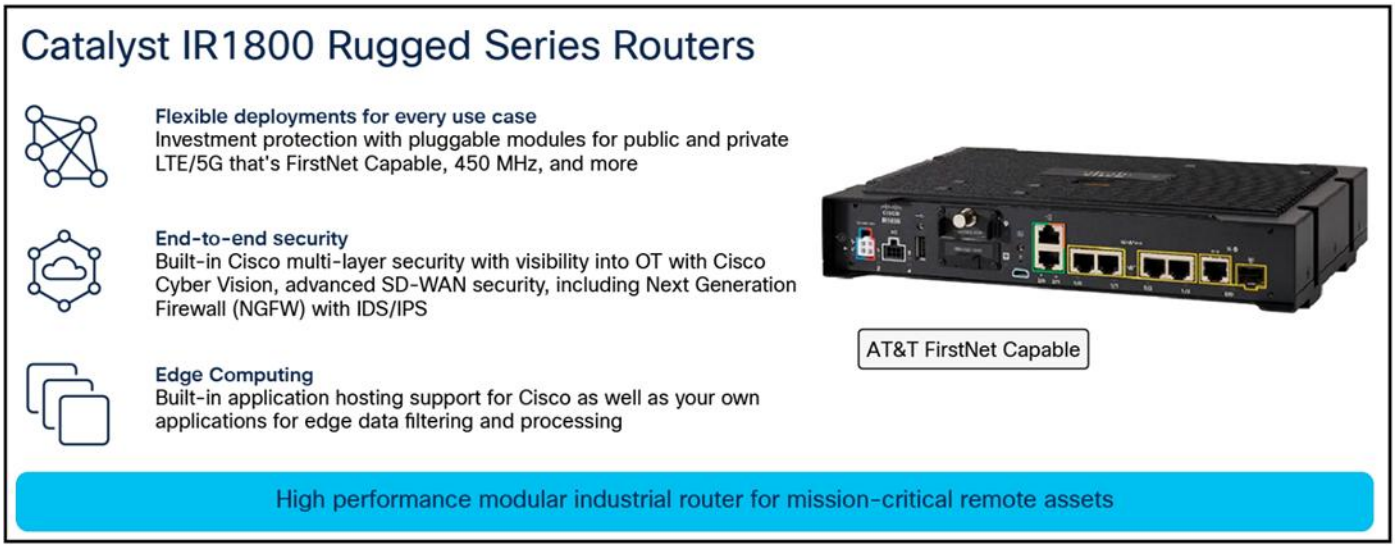


Figure 1.
Product Highlights

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Use cases

Oil and gas

Monitor pipelines, adjust valve pressure, optimize production, and prevent unplanned downtime.

Enable machine visibility and equipment monitoring to prevent faults before they occur while reducing costs.

Roadways and intersections

Highways and transportation agencies require reliable networks to connect speed cameras, monitoring cameras and more using backhaul technologies such as 4G and 5G with secure remote access capabilities to remotely maintain equipment.

Renewable energy production

Collect telemetry, monitor operations, detect incidents, easily gain remote access to control equipment, and ensure physical security in remote locations while leveraging cellular networks to simply connect individual wind turbines and solar panels.

EV chargers

With the risks of broken hardware, unexpected shutoffs, payment problems and more, you need reliable connectivity to your EV infrastructure to monitor and maintain equipment remotely to quickly resolve issues and reduce truck rolls to deliver a seamless customer experience.

Connected machines

Whether you're dealing with heavy industrial machinery or remote systems such as ATMs, kiosks, and vending machines, you need connectivity for the machine to access business applications or just to troubleshoot issues and maintain uptimes.

Mining

Connect light duty trucks and other assets using a combination of private cellular networks and Wi-Fi due to spotty public cellular coverage and need for cost-effective high throughput connectivity for high bandwidth applications such as video and file transfers and on-board connectivity for fleets.

Features and benefits

Key features and benefits

Table 1. Features and benefits

Feature	Benefit
Reliable connectivity for mission-critical mobile environments	• The modular IR1800 with dual cellular slots is capable of running multiple cellular services at once for mission-critical applications, allowing dual cellular band redundancy. • Supports modular IEEE 802.11ax Wi-Fi 6. The dual-radio Wi-Fi (2.4 and 5 GHz) can provide access point capability and also backhaul capability (in a stationary condition) to connect to infrastructure Wi-Fi.

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Feature	Benefit
Modular design	• Ultra-modular design supports evolving business and technical needs, protecting your investment. • Supports multiple different modules, including public or private 4G/LTE and 5G, Wi-Fi 6, FirstNet certified public safety LTE, SSD, and advanced GNSS, thus providing a high level of flexibility to choose the desired configuration to suit individual deployments.
Security	• Provides end-to-end multilayer enterprise-grade security that is part of Cisco's ultra-secure and advanced Cisco IOS XE operating system. • For added security, the IR1800 supports advanced enterprise-grade security suites such as unified threat detection for deployments requiring a higher level of enterprise-class security. • Supports Cisco Cyber Vision, providing visibility into industrial assets connected to the router.
Edge computing	• Comes with built-in edge compute resources and Cisco IOx App hosting support to securely run your own applications at the edge. • Supports Cisco's Edge Intelligence suite to unlock business intelligence.
Integrated storage	• Provides support to expand the internal storage to save multimedia and mission-critical data at the edge with its field-replaceable industrial-grade SSD.
SD-WAN	• Supports Cisco IOS XE SD-WAN technology to effectively manage hundreds of disparate locations, lowering TCO and operating at scale. • Support advanced SD-WAN security on IR1835
ThousandEyes Assurance	• Proactively monitor OT asset network connectivity health and improve operational resilience with end-to-end network visibility
Public Safety Certifications	• FirstNet Capable • Verizon Frontline

Prominent features

Cisco Catalyst IR1800 Rugged Series Routers portfolio

Cisco Catalyst IR1800 Rugged Series Routers are best-in-class ruggedized routers designed for assets that are mobile or on the move, stationary or remote. These highly flexible and modular routers are 5G ready and adopt the latest Wi-Fi 6 standards. The IR1800 Series consists of the following models: IR1833-K9, and IR1835-K9.

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Figure 2.
Models in the Catalyst IR1800 Series

The table below explains the top-level features of the models in the IR1800 Series

Table 2. Comparison of key features

Feature	IR1833-K9	IR1835-K9
Pluggable slots (cellular)	2	2
Wide pluggable slot (Wi-Fi)	1	1
Ignition power management	✓	✓
Gigabit Ethernet (GE) LAN (x4)	✓	✓
Combo RJ-45/SFP GE WAN port (L3) (x1)	✓	✓
Micro USB console	✓	✓
Power over Ethernet (PoE)/PoE+	✓	✓
SSD slot	✓	✓
Automotive dead reckoning GNSS slot	✓	✓
Digital I/O (x4)	-	✓
Serial interface	RS-232 (2)	RS-232 (1), RS-232/485 (1)

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Placement of IR1800 interface ports

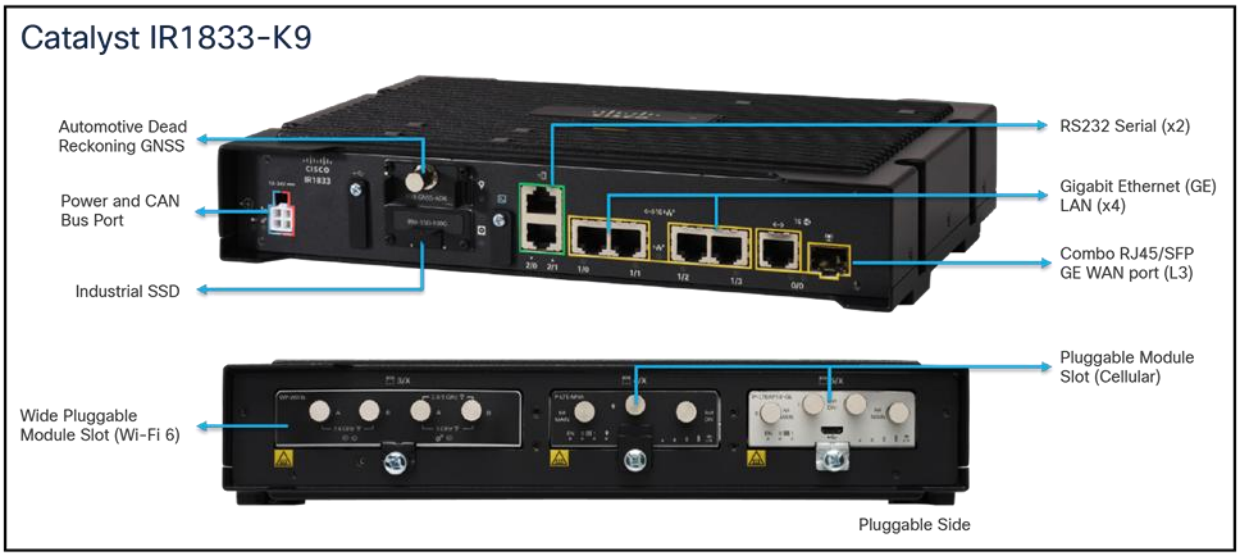


Figure 3.
IR1833-K9 interface ports

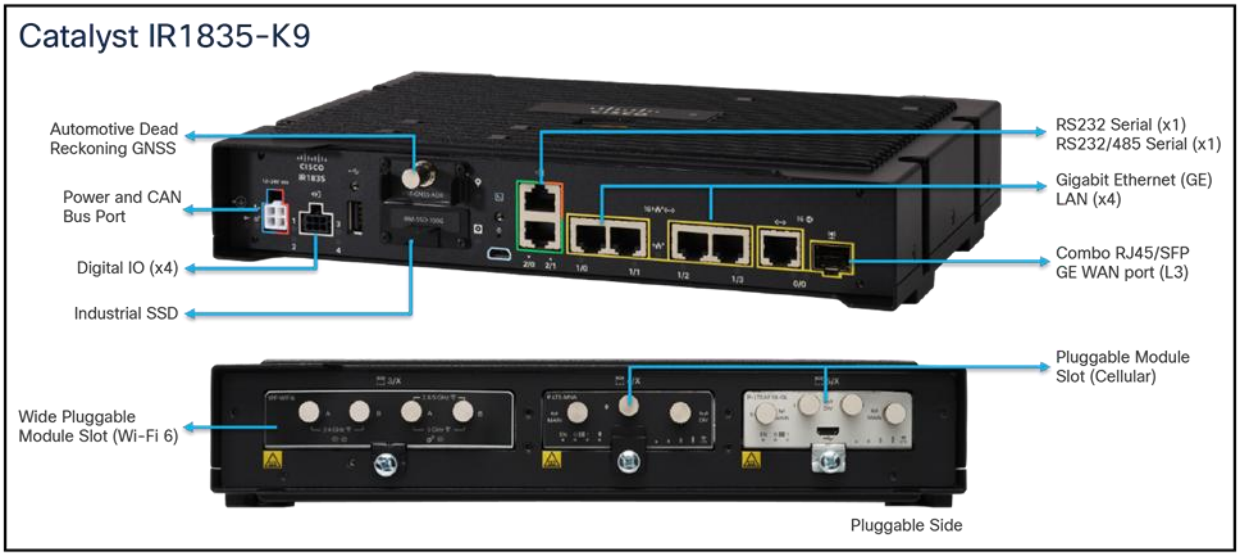


Figure 4.
IR1835-K9 interface ports

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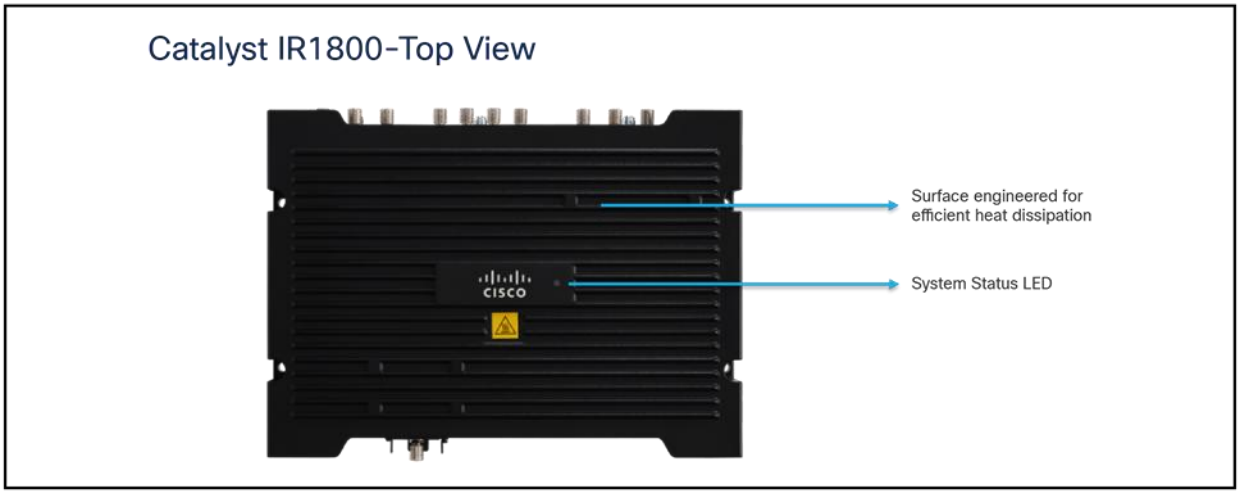


Figure 5.
Top view

The Catalyst IR1800 Series also introduces Wi-Fi 6 in a pluggable form factor. This ruggedized wide pluggable module provides the latest in Wi-Fi technology and is compatible with the latest wireless controllers from Cisco. The module can run in Control and Provisioning of Wireless Access Points (CAPWAP) mode and Work Group Bridge (WGB) mode.



Figure 6.
Wi-Fi 6 wide pluggable module

Memory specifications

Table 3. Memory specifications

Feature	Specification
Expandable SSD storage	• Cisco's industrial-grade field-replaceable 100-GB storage (IRM-SSD-100G)

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Physical Specifications

Table 4. Physical specifications

Feature	Specification
Physical dimensions (H x W x D)	• 2.20 x 11.04 x 8.06 in. (55.9 x 280.4 x 204.7 mm) • 2.20 x 11.04 x 9.73 in. (55.9 x 280.4 x 247.0 mm) with additional IP54-KIT (IR1800-IP54-KIT)
Weight	• 2.4 kg (5.3 lb) (without any modules) • 3.1 kg (6.8 lb) (fully configured)
IP rating	• IP40 rated • IP54 rated with additional IP54-KIT (IR1800-IP54-KIT)
Mounting options	• DIN rail • Panel mount

Power Specifications

Table 5. Power specifications

Feature	Specification
Power input	• Nominal voltage: +12V and +24V • Minimum and maximum input voltage: 9V – 36V • Maximum and Minimum input current: 7.56A – 1.99A
Power consumption	• At idle: 16W (at 12V), 17W (at 24V) • Typical: 22W (at 12V), 23W (at 24V) • Maximum: 27W (without PoE), 71W (with PoE)

Interfaces

Table 6. Interfaces

Feature	Specification
WAN interfaces	• Pluggable Interface Module slots ◦ 2x for Cisco Cellular Pluggable Interface Modules • Wide interface pluggable module slots- ◦ 1x on all IR1800 models for Cisco Wi-Fi 6 Wide Interface Pluggable Module • Combo 10/100/1000 Mbps Ethernet port (RJ-45 and SFP) (1x on all IR1800 models)
LAN interfaces	• 4x 10/100/1000 Mbps RJ-45 Ethernet ports
Asynchronous serial interfaces	• IR1833: 1x RS-232 DTE port and 1x RS-232 DCE port • IR1835: 1x RS-232 DTE port and 1x RS-232 DCE/RS-422/RS-485 port
Console	• 1 micro-USB port

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Feature	Specification
Automotive dead reckoning GNSS	• IR1833, IR1835: 1x slot for automotive dead reckoning GNSS module (IRM-GNSS-ADR)
Expandable storage	• IR1833, IR1835: 1x slot for Cisco's industrial 100-GB SSD (IRM-SSD-100G)
Power input/CAN bus combo	• 4-pin Molex Mini-Fit port for power and CAN bus (see accessories for more details)
Digital I/O	• IR1835: 4x digital I/O ports
Ignition power management	• All IR1800 models have automatic ignition power management capability for Ignition sense. • IR1835 supports Ignition power management with Ignition signal switching.
USB port	• 1x USB 2.0 Type A
Status LEDs	• Top surface ◦ 1x system status LED • Front surface ◦ 1x ignition power management LED ◦ 1x system status LED ◦ 4x Gigabit Ethernet LEDs ◦ 2x Combo Gigabit Ethernet-SFP LEDs ◦ IR1833, IR1835: 1x expandable storage LED ◦ IR1833, IR1835: 1x automotive dead reckoning GNSS LED ◦ IR1835: 4x digital I/O LEDs • Cellular and Wi-Fi modules have power and status LEDs on the modules

Environmental specifications

Table 7. Environmental specifications

Feature	Specification
Environmental operating temperature range	• -40° to 140°F (-40° to 60°C) in a sealed NEMA cabinet with no airflow • -40° to 158°F (-40° to 70°C) in a vented cabinet with 40 linear feet per minute (LFM) of air • -40° to 167°F (-40° to 75°C) in a forced air enclosure with 200 LFM of air • Type tested at 85°C for 16 hours • Refer to the IR1800 Hardware Installation Guide (HIG) for the operating temperature range for pluggable cellular modules and wide pluggable Wi-Fi modules
Operating altitude	• Maximum altitude: 13.800 ft per IEC 68-2-41

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Standards and industry specifications

Table 8. Standards and industry specifications

Feature	Specification
Mechanical	• SAE J1455 (Automobile Standard) • Temperature cycle stress test • Active 10-day temperature and humidity test • MIL STD 810G (Military Standard) • Method 514.6, Category 4 – Random Vibration • Method 516.6, Procedure V – Crash Hazard Shock • Method 516.6, Procedure I – Functional Shock
Automotive	• UNECE R10 • CISPR25 • ISO 7637 – 2 • ISO 11452 – 2/4 • EN 50155 2007/2017/2021, EN 50121-3-2:2016 & EN 50121-4: 2016 • EN 50125-1:2015, EN 50125-3:2003 • EN 45545-2:2020
Industrial Automation and Control Systems	• IEC 62443-4-1
Hazardous locations and ITE safety	• UL 121201 (Class I, Div. 2, groups A-D) • CSA 213 (Class I, Div. 2, groups A-D) • UL/CSA 60079-0, -15 (Class I, Zone 2, Gc/IIC) • IEC 60079-0, 7 -15 IECEx test report (Class I, Zone 2, Gc/IIC) • EN 60079-0, 7, 15 ATEX certificate (Class I, Zone 2, Gc/IIC) • UL/CSA 60950-1 • UL/CSA 62368-1 • IEC/EN 60950-1 • IEC/EN 62368-1
EMC	• FCC part 47 CFR Part 15 Subpart B Class A • EN 5032/CISPR 32 Class A • VCCI Class A, AS/NZS CISPR 32 Class A • CISPR 11 Class A, ICES 003 Class A • CNS 13438 Class A, KN 32 Class A • EN 300 386 • CISPR35/EN 55035 • EN/IEC61000-4-2 (ESD - Air/Contact Charge) • EN/IEC61000-4-3 (Radiated Immunity) • EN/IEC61000-4-4 (Electro Fast Transients Burst)

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Feature	Specification
	• EN/IEC61000-4-5 (Surge) • EN/IEC61000-4-6 (Conducted Immunity) • EN/IEC61000-4-8 (Power Frequency Magnetic Field Immunity) • EN/IEC61000-4-9 (Pulse Magnetic Field Immunity) • EN/IEC61000-4-11 (Voltage Disturbance Immunity)
Radio (cellular)	• FCC 47 CFR Part 22,24,27 • FCC 47 CFR Part 2 MPE • RSS 102, 132, 133 • AS/NZ: ACMA EMR, AS/CA S042.1, 4 • Japan MIC Article 2, 9 • EN 301 489-1,19,52 • EN 301 908-1,2,13 • EN 301 511 • EN 303 413 • EN 62311 MPE
Radio (Wi-Fi)	• FCC CFR Part 15.247, 15.407 • RSS 247 Issues 5 • EN 300 328, EN 301 893 • AS/NZ 4268:2018 • 2018.7 (MSIT notice 2018-38), 2017.9 (MSIT notice # 2017-10) • NOTACNCANEH N° 14/2013, NOTACNCANEH N° 14/2013 • Act n° 14448 (2017-12-04) • MIIT R-2002-353, MIIT R-2002-277, MIIT R-2012-620 • LP0002;2018 • Resolution 1985/2017 + Res. 1517/2018 + Res. 855/2019

IR1800-Compatible Pluggable Modules

Table 9a LTE (3GPP Category 4) Modules Available with IR1800

Features	P-LTE-GB
Countries / Regions	Europe
LTE Bands	**LTE Bands** B1, B3, B7, B8, B20, B28 **FDD LTE** 700 MHz (B28), 800 MHz (B20), 900 MHz (B8), 1800 MHz (B3), 2100 MHz (B1), and 2600 MHz (B7)
Backward Compatibility	UMTS, HSPA+ (B1, B8), EDGE, GSM, GPRS (900/1800)

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Features	P-LTE-GB
Theoretical Download and Upload Speeds[1]	150 / 50 Mbps
Carrier(s) Certified	Europe – Generic Carrier Firmware (GCF)
FirstNet Capable™ (B14)	–

Table 9b. LTE Advanced (3GPP Category 7) Modules Available with IR1800

Features	P-LTEA7-NA	P-LTEA7-EAL	P-LTEA7-JP
Countries / Regions	United States, Canada, North America	Europe, LATAM, Australia, New Zealand, India, Singapore, Malaysia, United Arab Emirates	Japan
LTE Bands	B2, B4, B5, B7, B12, B13, B14, B25, B26, B41, B42, B43, B48, B66, B71	B1, B3, B7, B8, B20, B28, B32, B38, B40, B41, B42, B43	B1, B3, B5, B8, B18, B19, B39, B41, B42, B43
3G HSPA+ Bands	B2, B4, B5	B1, B5, B8	B1, B5, B6, B19
Theoretical Download and Upload Speeds[1]	300 Mbps / 150Mbps	300 Mbps / 150Mbps	300 Mbps / 150Mbps
Carrier(s) Certified	US – Verizon, AT&T, T-Mobile, PTCRB2 Canada – Rogers	LATAM, Europe, APJC – Generic Carrier Firmware (GCF)	–
Carrier(s) Coming Soon	Canada – Bell, Telus	Australia – Telstra	NTT Docomo, KDDI, Softbank
FirstNet Capable™ (B14)	Approved by AT&T FirstNet	–	–

Table 9c 5G NR RedCap (3GPP Release 17) Modules Available with IR1800

Features	P-5GS6-RC-GL
Countries/Regions	United States, Canada, LATAM, Europe, Australia, New Zealand, Japan, Hong Kong, Indonesia, Singapore, India, China
RF Bands	**5G NR Sub-6** n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79 **LTE Bands** B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B38, B39, B40, B41, B42, B43, B48, B66, B70, B71, B106
Theoretical Download and Upload Speeds1	5G DL/UL: ~220 Mbps / ~120 Mbps LTE: DL/UL: ~195 Mbps / ~75 Mbps

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Features	P-5GS6-RC-GL
Carrier(s) Certified	US - AT&T, T-mobile, PTCRB, Verizon LATAM, Europe, APJC - Generic Carrier Firmware (GCF)
Carrier(s) Coming Soon	Canada - Bell, Telus, Rogers Australia - Telstra Japan - NTT Docomo, KDDI
FirstNet Capable™ (B14)	Coming soon with AT&T FirstNet
Frontline Capable™ (B13)	Coming soon with Verizon Frontline
eSIM SGP.32 Capable	Supports GSMA SGP.32 remote SIM profile swaps OTA via 3FF removable eSIMs (eUICC)
GPS/GNSS Capable	ANT-3-5G2G1-P-O (3-1 antenna) ANT-GNSS-P-OUT-SMA (single port) Designed for passive GPS/GNSS antenna as part of low-power architecture. Active antennas requiring bias voltage are not supported.

Table 9d Standalone / Non-Standalone 5G Sub 6 GHZ Module Available with IR1800

Features	P-5GS6-R16SA-GL
Countries / Regions	United States, Canada, LATAM, Europe, Australia, New Zealand, Japan, Hong Kong, Indonesia, Singapore, India, China
RF Bands	**5G FR1** n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29-n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79 **LTE Bands** B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46 (LAA), B48 (CBRS), B66, B71
Theoretical Download and Upload Speeds[1]	4.9 Gbps / 660 Mbps
Carrier(s) Certified	US - AT&T, Verizon, T-Mobile, PTCRB2 LATAM, Europe, APJC - Generic Carrier Firmware (GCF)
Carrier(s) Coming Soon	Canada - Bell, Telus, Rogers Australia - Telstra Japan - NTT Docomo, KDDI
FirstNet Capable™ (B14)	Approved by AT&T FirstNet

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Wi-Fi 6 pluggable module performance (support from Cisco IOS XE 17.6 onward)

Table 10. Wi-Fi 6 pluggable module performance

Feature	WP-WIFI6 Wi-Fi performance
Supported wireless LAN controllers	• Cisco Catalyst 9800 Series Wireless Controllers
802.11ax capabilities	• 2x2 uplink/downlink multiuser multiple-input multiple-output (MU-MIMO) with two spatial streams • Uplink/downlink Orthogonal Frequency-Division Multiple Access (OFDMA) • Target Wake Time (TWT) • Basic Service Set (BSS) coloring • Maximum Ratio Combining (MRC) • 802.11ax beamforming • 20-, 40-, and 80-MHz channels • PHY data rates up to 1.488 Gbps (80 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) (transmit and receive), Aggregate MAC Service Data Unit (A-MSDU) (transmit and receive) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support • Wi-Fi Protected Access 3 (WPA3) support
802.11ac capabilities	• 2x2 downlink MU-MIMO with 2 spatial streams • MRC • 802.11ac beamforming • 20-, 40-, and 80-MHz channels • PHY data rates up to 866.7 Mbps (80 MHz with 5 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support • WPA3 support
802.11n version 2.0 (and related) capabilities	• 2x2 MIMO with 2 spatial streams • MRC • 802.11n and 802.11a/g • 20- and 40-MHz channels • PHY data rates up to 444.4 Mbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support
Indicators	• Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors • Power LED indicates power status to module

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Feature	WP-WIFI6 Wi-Fi performance
Dimensions (W x L x H)	3.66 x 3.29 x 0.85 in. (9.30 x 8.36 x 2.16 cm)
Available transmit power settings (max/min)	• 2.4 GHz – total with two active antennas ◦ 23 dBm (200 mW) max for Complementary Code-Keying (CCK) rates ◦ 21 dBm (125 mW) max for OFDM rates ◦ -7 dBm (0.2 mW) min • 5 GHz – total with two active antennas ◦ 20 dBm (100 mW) max ◦ -7 dBm (0.2 mW) min
WP-WIFI6-S – Thailand	• 2.4GHz - Total with two chain active ◦ 20 dBm (100 mW) max for Complementary Code-Keying (CCK) rates ◦ 20 dBm (100 mW) max for OFDM rates • 5GHz – Total with two chain active ◦ 5150-5350MHz - 23 dBm (200 mW EIRP) max for all OFDM rates ◦ 5470-5700MHz – 30dBm (1W EIRP) max for all OFDM rates ◦ 5745-5825MHz – 30dBm (1W EIRP) Max for all OFDM rates

Cisco Small Form-Factor Pluggable (SFP) modules

The IR1800 offers Ethernet (copper and fiber) uplink options through SFP.

Supported Ethernet SFP modules

The Ethernet SFP module provides connections to other devices. These field-replaceable transceiver modules provide the uplink interfaces. RJ-45 connectors allow for copper connections.

Table 11. Supported SFP modules

GE SFP	Distance	Fiber	Classification
GLC-SX-MM-RGD	220 to 550 m	MMF	Industrial (-40° to +85°C)
GLC-LX-SM-RGD	550 m to 10 km	MMF/SMF	Industrial (-40° to +85°C)
GLC-ZX-SM-RGD	70 km	SMF	Industrial (-40° to +85°C)
GLC-SX-MMD	220 to 550 m	MMF	Extended (-5° to +85°C)
GLC-LH-SMD	550 m to 10 km	MMF/SMF	Extended (-5° to +85°C)
GLC-ZX-SMD	70 km	SMF	Extended (-5° to +85°C)
GLC-BX-U	10 km	SMF	Commercial (0° to +70°C)
GLC-BX-D	10 km	SMF	Commercial (0° to +70°C)
GLC-LH-MMD	550 m to 10 km	MMF/SMF	Extended (-5° to +85°C)
GLC-EX-SMD	40 km	SMF	Extended (-5° to +85°C)

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GE SFP	Distance	Fiber	Classification
GLC-FE-100FX-RGD	2 km	MMF	Industrial (-40C to +85C)
GLC-FE-100LX-RGD	10 km	SMF	Industrial (-40C to +85C)
GLC-FE-100FX	2 km	MMF	Commercial (0C to +70C)
GLC-FE-100LX	10 km	SMF	Commercial (0C to +70C)
GLC-FE-100EX	40 km	SMF	Commercial (0C to +70C)
GLC-FE-100ZX	80 km	SMF	Commercial (0C to +70C)
GLC-FE-100BX-U	10 km	SMF	Commercial (0C to +70C)
GLC-FE-100BX-D	10 km	SMF	Commercial (0C to +70C)
GLC-TE	100 m	N/A (RJ-45)	Extended (-5C to +85C)

Other IR1800-compatible pluggable modules

450MHz LTE module

Extending connectivity to remote sites can be challenging, especially when connectivity requirements differ depending on location and use case. As organizations are automating and establishing remote operations, Cisco is expanding the capabilities of the Catalyst IR1800 Rugged Series Router to meet the connectivity requirements of businesses wherever they operate.

Cellular communications in the 400-450MHz band, also called 450MHz LTE, have a longer wavelength, lower frequency and lower energy requirements compared to the traditional LTE and 5G. Due to the physical properties of the frequencies, it has benefits of covering a larger geographical area. It has been employed across several parts of Europe for connecting utility grids, maritime and other mission critical networks.

Cisco has partnered with Intelliport, a Hungary based technology provider in developing a module for the IR1800s to meet market needs. The 450MHz LTE band provides high resiliency and deep indoor signal penetration to connect the Catalyst IR1800 anywhere onsite. Datasheet for the module is available here -

https://www.intelliport.hu/dinamic/P-LTE-450%20datasheet%20v1dot0.pdf.

Dead reckoning GNSS module

The IR1800 Series introduces an advanced automotive dead reckoning GNSS pluggable module (for the IR1833-K9 and IR1835-K9 platforms): IRM-GNSS-ADR.

This multi constellation, pluggable module is ideal for telematics applications that require continuous and reliable accuracy for navigation and tracking.

The table below shows detailed specifications for the automotive dead reckoning GNSS module.

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Table 12. Dead reckoning GNSS specifications

Feature	Specification
Frequency bands supported	• GPS (L1) • GLONASS (L1, FDMA) (supported in future software releases) • Galileo (E1) (supported in future software releases) • BeiDou (B1) (supported in future software releases)
Standards	• NMEA, RTCM 104
GNSS channels	• 48-channel GNSS architecture
Positional accuracy	• 1.6 m (CEP50)
Frequency	• 10 Hz navigation, SBAS, 1PPS
A-GPS support	• Yes, local ephemeris prediction, server predicted ephemeris (future software support)
Jammer rejection	• Yes
MEMS sensors	• Embedded 6-axis (3D gyro + 3D accelerometer)

100-GB additional storage module

The IR1800 Series supports memory expansion to 100 GB (for the IR1833-K9 and IR1835-K9 platforms): IRMSSD-100G. This pluggable industrial SSD can be used to store mission-critical data and applications or multimedia files.

Table 13. SSD specifications

Feature	Specification
SSD memory	100 GB
Endurance	33 terabytes written (TBW)
Replacement recommendation	Replacement recommended when wear ratio reaches 90%

Accessories

The Catalyst IR1800 Series introduces multiple new accessories, including a new 7-in-1 antenna, a set of OBDII cables, and an IP54 kit.

Table 14. Compatible antennas

Antenna	Description
ANT-7-5G4WL2G1-O	7-in-1 outdoor vehicle mount antenna- 4G LTE SMA x4, Wi-Fi dual band RP-SMA x2, GNSS SMA x1
LTE-ANTM2-SMA-D	4G LTE dipole antenna 698-960, 1448-1511, 1710-2690 MHz, SMA
5G-ANTM-SMA-D	5G Sub-6 & LTE Advanced Pro capable dipole antenna, SMA

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Antenna	Description
W-ANTM2050D-RPSMA	Wi-Fi dual band swivel dipole antenna, RP-SMA
ANT-4G-OMNI-OUT-N	Outdoor omnidirectional 4G antenna, N connector, 698-3800 MHz
ANT-5G-OMNI-OUT-N	Outdoor omnidirectional 617 – 5950 MHz antenna, N connector
4G-LTE-ANTM-O-3-B	3-in-1 outdoor black antenna, 4G LTE SMA x2, GPS SMA x1
ANT-3-4G2G1-O	3-in-1 outdoor antenna- 4G LTE TNC x2, GPS SMA x1
ANT-2-4G2-O	2-in-1 outdoor vehicle mount antenna- 4G LTE TNC x2
ANT-5-4G2WL2G1-O	5-in-1 outdoor vehicle mount antenna- 4G LTE TNC x2, Wi-Fi dual band RP-TNC x2, GPS SMA x1
5G-ANTM-O-4-B	9-in-1 outdoor antenna- 5G Sub-6 GHz / 4G LTE SMA x4, Wi-Fi dual band RP-SMA x4, GPS SMA x1

Please refer to the antenna guide for all the antenna options available for the industrial routers: https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/antennas/installing-combined/industrialrouters-and-industrial-wireless-antenna-guide.html.

https://www.cisco.com/c/dam/td-xml/en_us/iot/antennas/scenarios/Antenna-Installation-Scenarios.pdf.

Table 15. OBD-II cables

Cable	Description (all OBD-II cables are 4.35 m in length)
OBD2-J1962YA-MF4	OBD-II (J1962) Type A to IR1800 cable with type 1 Y-splitting bypass harness
OBD2-J1939Y2-MF4	OBD-II (J1939) Type 2 heavy duty diagnostic harness for Volvo/Mack
OBD2-J1939Y1-MF4	OBD-II (J1939) Type 1 to IR1800 cable with type 1 y-splitting bypass harness and auxiliary (discrete voltage) inputs

OBD-II cables provide power and CAN bus connectivity to the Catalyst IR1800.

Note: When powering an IR1800 from an ODB2 connector, fusing must match the maximum power consumption requirement of the IR1800 variant attached to it. OBD2 connectors generally fuse at 60W.

IP54 kit

The IR1800 Series is IP40 rated by design. This IP rating can further be improved to IP54 with an additional IP54 kit (IR1800-IP54-KIT).

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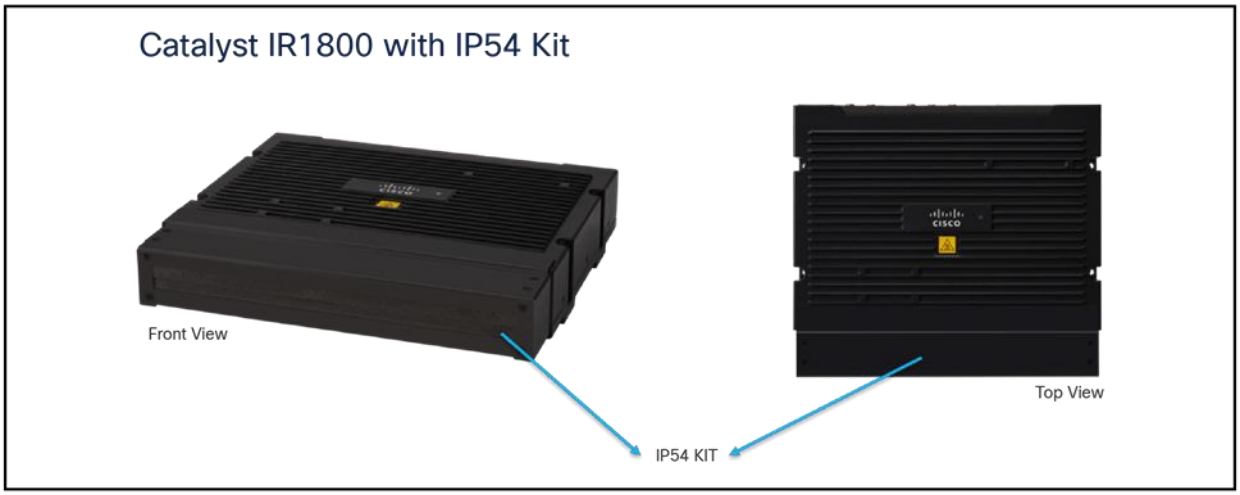


Figure 7.
Catalyst IR1800 with IP54 kit

M12 kit

The IR1800 router can be used in Mass-Transit use cases such as railways and buses requiring M12 connectors using the optional M12 Conversion Kit. The kit comes with the front M12 Adapter assembly as well as the IP54 kit. This improves the IP rating of the whole unit to IP54 and makes the unit EN50155 compliant for railways and bus use cases.

The kit is made of die cast aluminum with paint and texture matching the IR1800 chassis. It includes:

- 1 M12 GE Copper Uplink
- 4 M12 GE LAN Ports
- 1 RS232/485* M12 port
- 1 GPS / GNSS SMA connector
- 1 M12 T-code power / CANBUS connector

*RS-485 interface only available in IR1835

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Table 16. M-12 Connector Kit

PID	Description
IRM-1800-M12KIT	M12 Conversion Kit for IR1800
IRM-1800-M12KIT=	M12 Conversion Kit for IR1800 - Spare

Software details and management options

Software details

The Catalyst IR1800 Series runs on Cisco's latest ultra-secure Cisco IOS XE. The table below details key features of Cisco IOS XE on the IR1800.

Table 17. Software details

Feature	Description
Cisco IOS Software requirements	• Cisco IOS XE Software: Universal Cisco IOS Software image • Cisco IOS XE Software Release 17.5.1 or later • Cisco IOS XE Software: Unified image for Autonomous and Controller (SD-WAN) mode

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Feature	Description
IPv4 and IPv6 services features	• Routing Information Protocol Versions 1 and 2 (RIPv1 and RIPv2) and RIPng (IPv6) • Generic Routing Encapsulation (GRE) and Multipoint GRE (MGRE) • Standard 802.1d Spanning Tree Protocol (STP) • Network Address Translation (NAT) • Dynamic Host Configuration Protocol (DHCP) server, relay, and client for IPv4 and IPv6 • Dynamic DNS (DDNS) • DNS proxy • DNS spoofing • Access Control Lists (ACLs) for IPv4 and IPv6 • IPv4 and IPv6 multicast • IP Service-Level Agreement (IP SLA) • Open Shortest Path First (OSPF) v2 and v3 • Multiprotocol Border Gateway Protocol (MP-BGP) • Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv4 and IPv6 • Virtual Route Forwarding (VRF) Lite • Next-Hop Resolution Protocol (NHRP) • Asynchronous serial data encapsulation and relay • Layer 2 Tunneling Protocol (L2TP) v3 over subinterfaces and VLAN • Forward Error Correction (FEC) & Packet Duplication (With Catalyst SD-WAN Fabric Mode)
Security features	**Secure connectivity** • Trusted Anchor Module (TAM) • Hardware-accelerated encryption with minimal impact to system performance • Next-Generation Encryption (NGE) and Quantum Computing Resistant (QCR) algorithms such as AES- 256, SHA-384, SHA-512, and ML-KEM • Public-Key Infrastructure (PKI) support • 20 IPsec tunnels • NAT transparency • Dynamic Multipoint VPN (DMVPN) • Tunnel-less Group Encrypted Transport VPN (GETVPN) • Flex VPN • IPsec stateful failover • Secure Sockets Layer (SSL) VPN for secure remote access • VRF-aware IPsec • IPsec over IPv6 **Cisco IOS Firewall** • Zone-based policy firewall • VRF-aware stateful inspection routing firewall

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Feature	Description
	• Stateful inspection transparent firewall • Advanced application inspection and control • Secure HTTP (HTTPS), FTP, and Telnet Authentication Proxy • Dynamic and static port security • Firewall stateful failover • VRF-aware firewall **Integrated threat control** • Control-Plane Policing (CoPP) • Flexible packet matching • Network foundation protection **Cisco Umbrella** • As supported by IOS-XE • Advanced SD-WAN security features supported on IR1835
Quality of Service (QoS) features	• Provides LTE QoS with support for up to 8 concurrent bearers on each cellular WAN interface for traffic classification and prioritization • Provides traffic precedence to delay-sensitive and mission-critical services • Facilitates low-latency routing of delay-sensitive industrial applications • Supported on all LAN and WAN interfaces, including cellular • Low Latency Queuing (LLQ) • Weighted Fair Queuing (WFQ) • Class-Based WFQ (CBWFQ) • Class-Based Traffic Shaping (CBTS) • Class-Based Traffic Policing (CBTP) • Policy-Based Routing (PBR) • Class-Based QoS MIB • Class of Service (CoS) to Differentiated Services Code Point (DSCP) mapping • Class-Based Weighted Random Early Detection (CBWRED) • Resource Reservation Protocol (RSVP) • Real-Time Transport Protocol (RTP) header compression (cRTP) • Differentiated Services (DiffServ) • QoS pre-classify and pre-fragmentation
High-availability features	• Dual active LTE backhaul • Virtual Router Redundancy Protocol (VRRP) (RFC 2338) • Hot Standby Router Protocol (HSRP) • Dual SIM support on the LTE module for cellular failover • WAN monitoring to handle dual-SIM failover
IPv6 features	• IPv6 addressing architecture • IPv6 unicast and multicast forwarding

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Feature	Description
	• IPv6 ACLs • IPv6 over cellular, including DHCP Prefix Delegation • IPv6 routing (Static, RIPng, OSPFv3, EIGRP, MP-BGP) • IPv6 domain name resolution • IPv6 DHCP services

The Catalyst IR1800 supports multiple management solutions to deploy and manage large-scale deployments at their various stages.

Table 18. Supported management solutions

Operational phase	Application	Description
Device staging and configuration for a few routers	Cisco WebUI	A GUI-based device-management tool that simplifies provisioning of devices for a small-scale deployment through easy-to-use wizards.
Secure and manage your distributed OT WAN assets with agility at massive scale using Catalyst SD-WAN Manager	Cisco Catalyst SD-WAN Manager	**Gain comprehensive security** • Zero-trust approach and end-to-end security stack helps customers achieve segmentation, threat protection, content filtering, and more. **Scale with confidence** • IT network management solutions that scale to tens of thousands of devices with centralized security, policy and configuration. **Simplify IT and OT collaboration and save costs** • Give OT the best of IT with easy to deploy templates, centralized policies, remote updates, and application aware routing to reduce backhaul costs.
Extend your enterprise network to configure, monitor, and manage industrial assets	Cisco Catalyst Center	• Cisco Catalyst Center offers a network infrastructure that is not only fully programmable and open to third-party innovation, but can also fully and seamlessly integrate the cloud as an infrastructure component. • Simplifies and automates processes and workflow by bringing the notion of user-aware and application-aware policies into the foreground of network operations. • With Cisco Catalyst Center, the network can provide continuous feedback to simplify and optimize network operations. • Single management dashboard for configuration and management of WAN.

The Catalyst IR1800 supports multiple embedded management capabilities.

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Table 19. Embedded management capabilities

Feature	Description
Cisco IOS Embedded Event Manager (EEM)	A distributed and customized approach to event detection and recovery. Provides the ability to monitor events and take corrective or any other desired action when the monitored events, such as a high or low threshold, occur.
Cisco IOS XE IP SLA	Helps assure the performance of new, business-critical IP applications as well as IP services by actively monitoring and reliably reporting traffic statistics such as jitter, response time, packet loss, and connectivity.
Simple Network Management Protocol (SNMP), Syslog, NetFlow	Open-standards-based network monitoring and accounting tools, such as SNMP for 3G, 4G, ignition power, ADR-GNSS, mSATA, etc., provide a common management platform for many different devices.
LTE network management and diagnostics	A dedicated diagnostic port on a cellular module enables logging of data during debugging sessions that can be analyzed by industry-standard tools such as Spirent Universal Diagnostic Monitor (UDM).
Cisco IOS XE telemetry/YANG model	Telemetry is an automated communications process by which measurements and other data are collected at remote or inaccessible points and transmitted to the receiving equipment for monitoring. Telemetry provides a mechanism to stream YANG-modeled data to a data collector.

Software licensing

The Catalyst IR1800 introduces a dual network stack along with throughput licenses. Appropriate combinations can be selected according to need.

Network stack

There are two network stacks:

- Network Essentials
- Network Advantage

These stacks provide various capabilities. The Network Essentials license offers the essential elements of routing and security necessary for typical IoT deployments. The Network Advantage license enables advanced features such as MPLS, L2TPv3 for a highly scalable and cost-effective solution, mobile IP for seamless migration between networks, and application-aware QoS policies for built-in intelligence, in addition to the features offered by Network Essentials. The Network Advantage license also entitles users to Cisco Edge Intelligence, starting in EI Release 2.0.

For more information on the feature differences between Network Essentials and Network Advantage, go to: https://www.cisco.com/c/dam/m/en_us/products/software/ir-network-licensing-feature-matrix.pdf

Figure 8.
Licensing details

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Throughput licenses

The IR1800 has three throughput license options.

Table 20. Licenses and throughput

License	Tier	Aggregate throughput	Comment
Default (DEF)	T0	50 Mbps	This is the default tier with 50 Mbps aggregate throughput.
Performance (PERF)	T1	250 Mbps	This tier provides 250 Mbps aggregate throughput.
Uncapped (UNC)	T2	Uncapped	This tier allows the device to use its full hardware capacity.

Select an appropriate combination of network stack and throughput tier based on your requirements.

Export regulations require HSEC license as a mandatory attach with Boost License.

A single Cisco IOS XE universal image encompassing all functions is delivered with the product. Software feature licenses are preinstalled at the factory, depending on the selection made at the time of purchase, simplifying software delivery and decreasing the operational costs of the deployment. Licenses can be upgraded after deployment by going through the Cisco Smart License activation process. For a more detailed overview of Cisco licensing, go to cisco.com/go/licensingguide.

Ordering information

The Catalyst IR1800 Series is a Smart License–enabled product. Cisco Smart Accounts and Virtual Accounts are required to order the product. For more information on how to order the Catalyst IR1800 and Cisco Smart Accounts, visit the Cisco Smart Account user guide.

Ordering the Catalyst IR1800 can be divided into three major sections:

1. Operating system and licenses (step 2)
2. Pluggable modules (steps 3 through 7)
3. Accessories (step 8 and later)

To place an order, select the right product IDs from the tables below in sequential order.

Table 21. Product ordering process

Step 1. Select the base platform.

Hardware (chassis)	Description
IR1833-K9	Cisco Catalyst IR1833 Rugged Router
IR1835-K9	Cisco Catalyst IR1835 Rugged Router

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Step 2. Select the network stack and throughput tier.

Licenses			
Network Essentials	**Network Advantage**	**Throughput tier**	**Aggregate throughput**
SL-1800-NE/DEF-K9	SL-1800-NA/DEF-K9	T0 (default)	50 Mbps
SL-1800-NE/PERF-K9	SL-1800-NA/PERF-K9	T1 (Performance)	250 Mbps
SL-1800-NE/UNC-K9	SL-1800-NA/UNC-K9	T2(UNC)	Uncapped

Spare Licenses			
Network Essentials	**Network Advantage**	**Throughput tier**	**Aggregate throughput**
SL-1800-NE/DEF-K9=	SL-1800-NA/DEF-K9=	T0 (default)	30 Mbps
SL-1800-NE/PER-K9=	SL-1800-NA/PER-K9=	T1 (Performance)	250 Mbps
SL-1800-NE/UNC-K9=	SL-1800-NA/UNC-K9	T2(UNC)	Uncapped

The T2 (Uncapped) license requires an additional mandatory L-18-HSEC-K9 license.

Step 3. Select the cellular pluggable modules.

Cellular module	Description
P-5GS6-RC-GL (=)	5G Reduced Capbility module for North America, LATAM, Europe and Asia Pacific
P-5GS6-R16SA-GL(=)	Standalone / non-standalone 5G Sub 6 GHZ module
P-LTEA7-NA(=)	Category 7 LTE module for North America
P-LTEA7-EAL(=)	Category 7 LTE module for Europe, LATAM, Australia, New Zealand, India, Singapore, Malaysia, Thailand and United Arab Emirates
P-LTEA7-JP(=)	Category 7 LTE module for Japan
P-LTE-GB(=)	Category 4 LTE module for Europe

Step 4. Select the Wi-Fi 6 pluggable module.

Wi-Fi 6 pluggable module		
CAPWAP mode	**EWC mode**	**Description**
WP-WIFI6-x(=)	**WP-WIFI6-EWC-x(=)**	'x' denotes the country/regional code for Wi-Fi frequency (e.g., A/B/C, etc.) Wireless LAN Compliance Lookup can be used to choose the right country/regional code

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Step 5. Select the dead reckoning pluggable GNSS module (IR1833-K9 and IR1835K9).

Dead reckoning GNSS	Description
IRM-GNSS-ADR(=)	Dead reckoning GNSS pluggable module

Step 6. Select the additional 100-GB SSD module (IR1833-K9 and IR1835-K9).

SSD	Description
IRM-SSD-100G(=)	100-GB industrial-grade field-replaceable SSD

Step 7. Select the power adapter and appropriate mating cord (if using a power brick and power cable).

Power supply and cables	Description
PWR-MF4-125W-AC(=)	AC to DC power adapter for IR1800- 125W
IR-PWR-G2A-NA(=)	Power Cord - North America
IR-PWR-G2A-BR(=)	Power Cord - Brazil
IR-PWR-G2A-AU(=)	Power Cord – Australia
IR-PWR-G2A-CE(=)	Power Cord – Central Europe
IR-PWR-G2A-ISR(=)	Power Cord – Israel
IR-PWR-G2A-ID(=)	Power Cord - India
IR-PWR-G2A-UK(=)	Power Cord - United Kingdom
IR-PWR-G2A-ITA(=)	Power Cord – Italy
IR-PWR-G2A-AR(=)	Power Cord – Argentina
IR-PWR-G2A-JP(=)	Power Cord – Japan
IR-PWR-G2A-AP(=)	Power Cord – Asia Pacific
IR-PWR-G2A-CN(=)	Power Cord – China
IR-PWR-G2A-SA(=)	Power Cord – South Africa
IR-PWR-G2A-SWI(=)	Power Cord - Switzerland

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Step 8. Select the right OBD-II cable, if needed

(An OBD-II cable can be used to power the IR1800 from the OBD-II port of a vehicle, along with connecting to the CAN bus of the vehicle for vehicle data.)

OBD-II cable	Description
OBD2-J1962YA-MF4(=)	OBD-II (J1962) Type A to IR1800 cable with type 1 Y-splitting bypass harness
OBD2-J1939Y2-MF4(=)	OBD-II (J1939) Type 2 heavy duty diagnostic harness for Volvo/Mack
OBD2-J1939Y1-MF4(=)	OBD-II (J1939) Type 1 to IR1800 cable with type 1 y-splitting bypass harness and auxiliary (discrete voltage) inputs

Step 9. Select the right antennas and antenna stand for the use case/deployment.

Antenna	Description
ANT-7-5G4WL2G1-O(=)	7-in-1 outdoor vehicle mount antenna- 4G LTE SMA x4, Wi-Fi dual band RP-SMA x2, GNSS SMA x1
LTE-ANTM2-SMA-D(=)	4G LTE dipole antenna 698-960, 1448-1511, 1710-2690 MHz, SMA
5G-ANTM-SMA-D(=)	5G Sub-6 & LTE Advanced Pro capable dipole antenna, SMA
W-ANTM2050D-RPSMA(=)	Wi-Fi dual band swivel dipole antenna, RP-SMA
ANT-4G-OMNI-OUT-N(=)	Outdoor omnidirectional 4G antenna, N connector, 698-3800 MHz
ANT-5G-OMNI-OUT-N(=)	Outdoor omnidirectional 617 – 5950 MHz antenna, N connector
4G-LTE-ANTM-O-3-B(=)	3-in-1 outdoor black antenna, 4G LTE SMA x2, GPS SMA x1
ANT-3-4G2G1-O(=)	3-in-1 outdoor antenna- 4G LTE TNC x2, GPS SMA x1
ANT-2-4G2-O(=)	2-in-1 outdoor vehicle mount antenna- 4G LTE TNC x2
ANT-5-4G2WL2G1-O(=)	5-in-1 outdoor vehicle mount antenna- 4G LTE TNC x2, Wi-Fi dual band RP-TNC x2, GPS SMA x1
5G-ANTM-O-4-B(=)	9-in-1 outdoor antenna- 5G Sub-6 GHz / 4G LTE SMA x4, Wi-Fi dual band RP-SMA x4, GPS SMA x1

Step 10. Select the DIN rail (if using a DIN rail mount).

Mounting option	Description
IR1800-DINRAIL(=)	DIN rail mount

Step 11. Select the IP54 Kit (if you require an IP54 system).

IP54 option	Description
IR1800-IP54-KIT(=)	IP54 Kit for IR1800

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Step 12. Select the appropriate SFP module (if needed).

Ethernet SFP	Distance	Fiber	Classification
GLC-SX-MM-RGD	220 to 550 m	MMF	Industrial (-40C to +85C)
GLC-LX-SM-RGD	550 m to 10 km	MMF/SMF	Industrial (-40C to +85C)
GLC-ZX-SM-RGD	70 km	SMF	Industrial (-40C to +85C)
GLC-SX-MMD	220 to 550 m	MMF	Extended (-5C to +85C)
GLC-LH-SMD	550 m to 10 km	MMF/SMF	Extended (-5C to +85C)
GLC-ZX-SMD	70 km	SMF	Extended (-5C to +85C)
GLC-BX-U	10 km	SMF	Commercial (0C to +70C)
GLC-BX-D	10 km	SMF	Commercial (0C to +70C)
GLC-LH-MMD	550 m to10 km	MMF/SMF	Extended (-5C to +85C)
GLC-EX-SMD	40 km	SMF	Extended (-5C to +85C)
GLC-FE-100FX-RGD	2 km	MMF	Industrial (-40C to +85C)
GLC-FE-100LX-RGD	10 km	SMF	Industrial (-40C to +85C)
GLC-FE-100FX	2 km	MMF	Commercial (0C to +70C)
GLC-FE-100LX	10 km	SMF	Commercial (0C to +70C)
GLC-FE-100EX	40 km	SMF	Commercial (0C to +70C)
GLC-FE-100ZX	80 km	SMF	Commercial (0C to +70C)
GLC-FE-100BX-U	10 km	SMF	Commercial (0C to +70C)
GLC-FE-100BX-D	10 km	SMF	Commercial (0C to +70C)
GLC-TE	100 m	NA (RJ-45)	Extended (-5C to +85C)

Step 13. Select other accessories as needed.

Other accessories	Description
Power cable	
CAB-PWR-15-MF4	Power cable when directly connecting to a DC source (such as a vehicle battery) **Note:** It is preferred to use an OBD-II cable for a quick and clean installation
RF cables	
CAB-L240-10-SM-TM	SMA(m)-straight to TNC(m)-straight, LMR-240-DB, 10 ft.

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Other accessories	Description
CAB-L240-15-SM-TM	SMA(m)-straight to TNC(m)-straight, LMR-240-DB, 15 ft.
CAB-L240-20-SM-TM	SMA(m)-straight to TNC(m)-straight, LMR-240-DB, 20 ft.
LTE-AE-MAG-SMA	Magnetic SMA antenna stand, SMA(f)-straight to TNC(f)-straight, LMR-195 plenum rated, 1 ft.
CAB-L240-10-SM-NM	SMA(m)-straight to N(m)-straight, LMR-240-FRDB, 10 ft.
CAB-L-10-RSP-RTP	RP-SMA(male) to RP-SMA(female), 10 ft.
CAB-L195-10-SM-SF	SMA(m) to SMA(f), LMR-195, 10 ft.
CAB-L240-20-SM-SF	SMA(m) to SMA(f), LMR-240, 20 ft.
CAB-L400-20-N-N	N(m)-straight to N(m)-right angle, LMR-400-DB, 20 ft.
RF adapters	
LTE-ADPT-SM-TF	SMA(m)-straight to TNC(f)-straight adapter
AIR-ACC370-NF-NF	N(f)-straight to N(f)-straight adapter
Ethernet cable	
CAB-ETH-S-RJ45	Yellow Cable for Ethernet, Straight through,RJ-45,15 feet
Console cable	
CAB-USB-UB	USB Type A to USB Micro-B (2m)
Digital I/O cable	
CAB-IO-MF6	Mating connector for Alarm-In / Digital I/O / Ignition Sense
Lighting arrestors	
ACC-LA-G-SM-SF	SMA(m) to SMA(f)- straight, GDT, DC to 6 GHz
CGR-LA-NF-NF	N(f)-straight to N(f)-straight, GDT, DC to 6 GHz
CGR-LA-NM-NF	N(f)-straight to N(m)-straight, GDT, DC to 6 GHz
4G-ACC-OUT-LA	TNC(f)-straight to TNC(m)-straight, HPF, 698 to 2700 MHz (does not support GNSS)
ACC-LA-G-TM-TF	TNC(f)-straight to TNC(m)-straight, GDT, DC to 6 GHz

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Warranty information

The Catalyst IR1800 Series comes with a Cisco 5-year limited hardware warranty. Adding a contract for a technical service offering, such as Cisco Smart Net Total Care® Service, provides benefits not available with the warranty, including access to OS updates, Cisco.com online resources, and Cisco Technical Assistance Center (TAC) support services. The table below shows the available technical services.

Find more information about Cisco product warranties.

Learn more about Cisco Technical Services.

Table 22. Technical services

Warranty services for the Catalyst IR1800
Cisco Smart Net Total Care Service • Global access to the Cisco TAC 24 hours daily • Unrestricted access to the extensive Cisco.com resources, communities, and tools • Next-business-day (NBD), 8x5x4, 24x7x4, and 24x7x2 advance hardware replacement and onsite parts replacement and installation available • Ongoing operating system software updates within the licensed feature set • Proactive diagnostics and real-time alerts on Cisco Smart Call Home-enabled devices
Cisco Smart Foundation Service • NBD advance hardware replacement, as available • Business-hours access to Small and Medium-Sized Business (SMB) Cisco TAC (access levels vary by region) • Access to Cisco.com SMB knowledge base • Online technical resources through the Cisco Smart Foundation portal • OS software bug fixes and patches

Product sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environmental Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environmental Sustainability" section of the CSR Report) are provided in the following table:

Table 23. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com

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Sustainability topic		Reference
	Environmental operating temperature range	Table 7. Environmental specifications
Power	Power input Power consumption	Table 5. Power specifications
Material	Product packaging weight and materials	Contact: environment@cisco.com
	Physical dimensions and weight	Table 4. Physical specifications

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

For more information

Learn more about the Cisco Catalyst IR1800 Rugged Series Routers: https://www.cisco.com/go/IR1800

Learn more about the industrial routing portfolio: https://www.cisco.com/c/en/us/solutions/internet-ofthings/iot-routers-and-gateways.html.

Footnotes Reference

[1] Throughput degradation may be observed at a high temperature.

[2] PTCRB stands for 'PCS Type Certification Review Board'

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Document history

New or revised topic	Described in	Date
Removed fleet use cases and EWC mode	Product overview	June 2025
Added support for Cisco ThousandEyes Assurance	Product overview	June 2025
Updated cellular PIM modules as well as general content revisions	Table 10	March 2025
Added additional use cases for fixed deployments	Product overview	June 2023
Added M12 Connector Kit	Table 19	June 2023
Spare Licenses Ordering information	Table 24	June 2023
Added 5G RedCap module	Table 9	May 2026
Added feature matrix	Figure 8	September 2026

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