Pluggable Interface Modules for the Industrial IoT Routing Portfolio

Keep pace without the full rip and replace

As organizations are automating and establishing remote fixed and mobile operations, extending connectivity to Industrial IoT locations can be challenging, especially when requirements differ depending on location and use case. As cellular and wireless technologies evolve, in tandem with customer requirements, solutions need to keep pace without a full rip and replace.

To meet these needs, Cisco's industrial routers are modular, allowing you the flexibility to swap or upgrade as your requirements change or new technologies become available. We are continually expanding the capabilities of our industrial routers and modules. Check out our portfolio of Pluggable Interface Modules (PIMs) for each of our industrial routers:









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Pluggable Modules for the Cisco IR1000 Rugged Series Secure Routers





Table 1. Pluggable Modules for the Cisco IR1000 Rugged Series Secure Routers

Module name	PID number	Description
Category 4 LTE Module	P-LTE-GB	Category 4 LTE module for Europe (GB)
Category 7 LTE Modules	P-LTEA7-NA P-LTEA7-EAL P-LTEA7-JP	CAT 7 LTE for North America, (NA), Middle East, EMEA, APAC, LatAm, (EAL) and Japan (JP) P-LTEA7-NA (FirstNet Capable)
5G RedCap Module	P-5GS6-RC-GL	5G 3GPP Rel 17 RedCap module with LTE/5GSA support. Global with eSIM support
5G Sub 6 GHz Module Standalone/ Non-Standalone	P-5GS6-R16SA-GL	5G supporting Standalone (SA) and Non-standalone (NSA) for public and private networks. Global PIM. Massive capacity and performance with lower latency. (CBRS/Private LTE-enabled and FirstNet Capable certification)
450 MHZ LTE Module*	P-LTE-450	Provides large geographical coverage and high resiliency along with deep indoor signal penetration

* Coming soon

Pluggable Modules for the Cisco Catalyst IR1100 Rugged Series Routers



Table 2. Pluggable Modules for the Cisco Catalyst IR1100 Rugged Series Routers

Module name	PID number	Description
Expansion Model 1	IRM-1100-SP	Expansion module for dual active Long-Term Evolution (LTE) and Small Form-factor Pluggable (SFP)
Expansion Model 2	IRM-1100-SPMI	Expansion module for dual active LTE, local storage for applications, SFP and input/output port
Expansion Model 3	IRM-1100-4A2T	Serial and Ethernet Expansion Module for Asynchronous Serial and GE interfaces
Expansion Model 4	IRM-1100-4S8I	Expansion module for additional SFP and GPIO ports
Category 4 LTE Module	P-LTE-GB	Category 4 LTE module for Europe (GB)
Category 7 LTE Modules	P-LTEA7-NA P-LTEA7-EAL P-LTEA7-JP	CAT 7 LTE for North America, (NA), Middle East, EMEA, APAC, LatAm, (EAL) and Japan (JP) P-LTEA7-NA (FirstNet Capable)
5G RedCap Module	P-5GS6-RC-GL	5G 3GPP Rel 17 RedCap module with LTE/5GSA support. Global with eSIM support.
5G Sub 6 GHz Module Standalone/ Non-Standalone	P-5GS6-R16SA-GL	5G supporting Standalone (SA) and Non-standalone (NSA) for public and private networks. Global PIM. Massive capacity and performance with lower latency. (CBRS/Private LTE-enabled and FirstNet Capable certification)
450MHz LTE Module	P-LTE-450	Provides large geographical coverage and high resiliency along with deep indoor signal penetration
100 GB Additional Storage Module	IRM-SSD-100G	Expandable industrial-grade field-replaceable 100 GB storage

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Pluggable Modules for the Cisco Catalyst IR1800 Rugged Series Routers



Table 3. Pluggable Modules for the Cisco Catalyst IR1800 Rugged Series Routers

Module name	PID number	Description
Category 4 LTE Module	P-LTE-GB	Category 4 LTE module for Europe (GB)
Category 7 LTE Modules	P-LTEA7-NA P-LTEA7-EAL P-LTEA7-JP	CAT 7 LTE for North America, (NA), Middle East, EMEA, APAC, LATAM, (EAL) and Japan (JP) P-LTEA7-NA (FirstNet Capable)
5G RedCap Module	P-5GS6-RC-GL	5G 3GPP Rel 17 RedCap module with LTE/5GSA support. Global with eSIM support.
5G Sub 6 GHz Module Standalone/ Non-Standalone	P-5GS6-R16SA-GL	5G supporting Standalone (SA) and Non-standalone (NSA) for public and private networks. Global PIM. Massive capacity and performance with lower latency. (CBRS/Private LTE-enabled and FirstNet Capable certification)
450MHz LTE Module	P-LTE-450	Provides large geographical coverage and high resiliency along with deep indoor signal penetration
Automotive Dead Reckoning Global Navigation Satellite System (GNSS) Module*	IRM-GNSS-ADR	Provides accurate estimates of a vehicle's position by combining speed and heading data from internal sensors with On-Board Diagnostics (OBD-II) data from the vehicle's CAN bus
100 GB Storage Module*	IRM-SSD-100G	Expandable industrial-grade field-replaceable 100 GB storage

*Only available with the IR1833 and IR1835 models

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Pluggable Modules for the Cisco Catalyst IR8100 Heavy Duty Series Routers



Table 4. Pluggable Modules for the Cisco Catalyst IR8100 Rugged Series Routers

Module name	PID number	Description
Category 7 LTE Modules	IRMH-LTE7-NA-900 IRMH-LTE7-EAL	CAT7 LTE module for North America with 900MHz WPAN co-existence filter (FirstNet Capable) CAT7 LTE module for Europe, APJC, LATAM
5G Sub 6 GHz Module Standalone/ Non-Standalone	IRMH-5GR16SA	5G supporting Standalone (SA) and Non-standalone (NSA) for public and private networks. Global PIM. Massive capacity and performance with lower latency. (CBRS/Private LTE-enabled and FirstNet Capable certification)
5G RedCap Module	IRMH-5GS6-RC-GL	5G 3GPP Rel 17 RedCap module with LTE/5GSA support. Global with eSIM support.
100 GB Additional Storage Module	IRM-SSD-100G	Expandable industrial-grade field-replaceable 100 GB storage
Wireless Personal Area Network (WPAN) Wi-SUN Module	IRMH-WPAN-NA IRMH-WPAN-BRZ	WPAN module for Cisco Resilient Mesh or Wi-SUN mesh deployments for North America, Argentina, and Columbia (NA) as well as Brazil (BRZ)
Battery Backup Unit Module	IRMH-BATT-4AH	Battery backup module for the IR8140H model
CPU/Supervisor Module	IRMH-SUP-SP	Supervisor module with 1 copper and 1 fiber port (for H)
60-Watt AC Power Module	IRMH-PWR60W-AC	60W AC power supply module for the IR8140H

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Pluggable Modules for the Cisco Catalyst IR8300 Rugged Series Router



Table 5. Pluggable Modules for the Cisco Catalyst IR8300 Rugged Series Router

Module name	PID number	Description
Category 4 LTE Module	P-LTE-GB	Category 4 LTE module for Europe (GB)
Category 7 LTE Modules	P-LTEA7-NA P-LTEA7-EAL P-LTEA7-JP	CAT 7 LTE for North America, (NA), Middle East, EMEA, APAC, LatAm, (EAL) and Japan (JP)
5G RedCap Module	P-5GS6-RC-GL	5G 3GPP Rel 17 RedCap module with LTE/5GSA support. Global with eSIM support.
5G Sub 6 GHz Module Standalone/ Non-Standalone	P-5GS6-R16SA-GL	5G supporting Standalone (SA) and Non-standalone (NSA) for public and private networks. Global PIM. Massive capacity and performance with lower latency. (CBRS/Private LTE-enabled and FirstNet Capable certification)
100GB Additional Storage Module	IRM-SSD-100G	Expandable industrial-grade field-replaceable 100 GB storage
IR Series Timing Module	IRM-TIMING-MOD	Pluggable timing module with various timing ports including Time of Day (ToD) + 1 Pulse Per Second (PPS). Output-provide or receive time of day message or 1 pulse per second, analog and digital input/output interfaces and GNSS receiver
IR Series RS232 8 Port Serial Network Interface Module	IRM-NIM-RS232	Provides serial connectivity to the router
IR Series T1/E1 Network Interface Module	IRM-NIM-2T1E1	Provides T1/E1 connectivity to the router

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Pluggable Modules for Entire Industrial IoT Routing Portfolio

Table 6. Pluggable Modules for the Industrial Routing Portfolio

Module name	IR1001	IR1005	IR1101	IR1833-K9	IR1835-K9	IR8140H-K9	IR8140H-P-K9	IR8340-K9
Category 4 LTE Modules			✓	✓	✓			✓
Category 7 LTE Modules	✓	✓	✓	✓	✓	✓	✓	✓
5G Redcap Modules	✓	✓	✓	✓	✓	✓	✓	✓
Standalone/Non-Standalone 5G	✓	✓	✓	✓	✓	✓	✓	✓
450MHz LTE Module	✓*	✓*	✓	✓	✓			
Automotive Dead Reckoning GNSS				✓	✓			
Wi-Fi 6 Module						✓	✓	
100 GB Additional Storage Module						✓	✓	
Wireless Personal Area Network						✓	✓	
(WPAN) Wi-SUN Module						✓	✓	
Battery Backup Unit Module						✓	✓	
CPU/Supervisor Module						✓	✓	
60-Watt AC Power Module						✓	✓	
IR Series Timing Module								✓
IR Series RS232 8 Port Serial Network Interface Module								✓
IR Series T1/E1 Network Interface Module								✓

* Coming soon

Learn more about Cisco's industrial routing portfolio here.

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