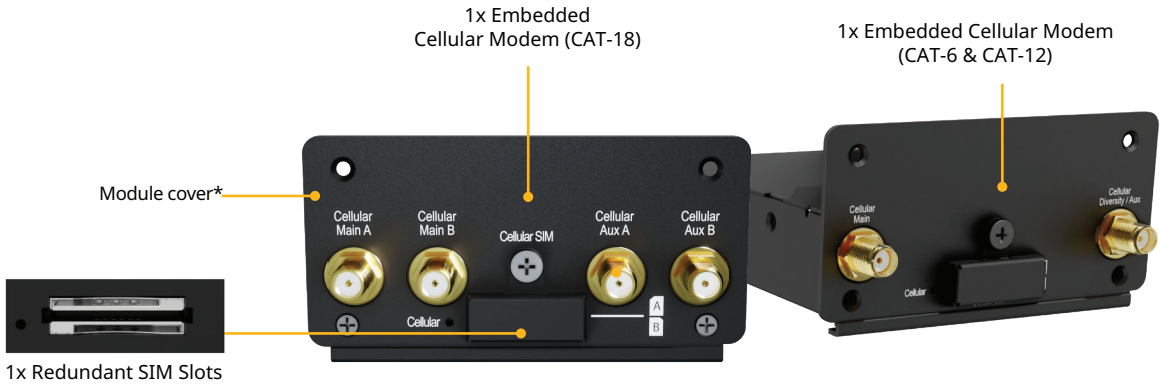
FlexModule Mini

Expansion Modules for Balance 20X / 380X / 580X



*All devices come included with interchangeable module covers compatible for Balance 20X or 380X. Image for reference only.

Specifications

	1x LTE-A Module (EXM-MINI-1GLTE-G)
Interface	1x Embedded LTE-A Cellular Modems with Redundant SIM Slots
Antenna Connectors	4x SMA Cellular Antenna Connectors
Downlink/Uplink Datarate	1.2Gbps/150Mbps (CAT-18)
Power Consumption	10W
Weight	0.83 pounds (375 grams)
Package Content	LTE-A Module (EXM-MINI-1GLTE-G) 4x LTE/5G Antennas (ACW-234)

	1x LTE-A Module (EXM-MINI-1LTEA)
Interface	1x Embedded LTE-A Cellular Modems with Redundant SIM Slots
Antenna Connectors	2x SMA Cellular Antenna Connectors
Downlink/Uplink Datarate	300Mbps/50Mbps (CAT-6) 300Mbps/150Mbps (CAT-7) 600Mbps/150Mbps (CAT-12)
Power Consumption	10W
Weight	0.83 pounds (375 grams)
Package Content	LTE-A Module (EXM-MINI-1LTEA) 2x LTE/5G Antennas (ACW-234)

Bands

Product Code	Description	Embedded Modem(s)	Regions	4G Bands	3G Bands
EXM-MINI-1LTEA-W	Expansion Module with 1x LTE-A modems (CAT-6)	1x LTE-A	Worldwide	B1, B2, B3, B4, B5, B7, B8 , B12, B13, B20, B25, B26, B29, B30, B41	B1, B2, B3, B4, B5, B8
EXM-MINI-1LTEA-P	Expansion Module with 1x LTE-A modems (CAT-6)	1x LTE-A	APAC	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	B1, B5, B6, B8, B9, B19, B39
EXM-MINI-LTEA-US	Expansion Module with 1x LTE-A Pro modems (CAT-7)	1x LTE-A (CAT-7)	America	B2, B4, B5, B7, B12, B13, B14, B25, B26 B41, B42, B43, B48, B66, B71	B2, B4, B5
EXM-MINI-1LTEA-R	Expansion Module with 1x LTE-A Pro modems (CAT-12)	1x LTE-A Pro (CAT-12)	America / FirstNet	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42, B43, B46, B48, B66	B1, B2, B4, B5, B6, B8, B9, B19
EXM-MINI-1LTEA-D	Expansion Module with 1x LTE-A Pro modems (CAT-12)	1x LTE-A Pro (CAT-12)	APAC / EMEA	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42, B43, B46, B48,	B1, B2, B4, B5, B6, B8, B9, B19
EXM-MINI-1GLTE-G	Expansion Module with 1x LTE-A Pro modems (CAT-18)	1x LTE-A Pro (CAT-18)	Global	B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(17), B13, B14, B20, B28, B29, B30, B32, B71, B38, B39, B40, B41, B42, B43, B46, B48	B1, B2, B4, B5(B19), B8

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FlexModule Mini

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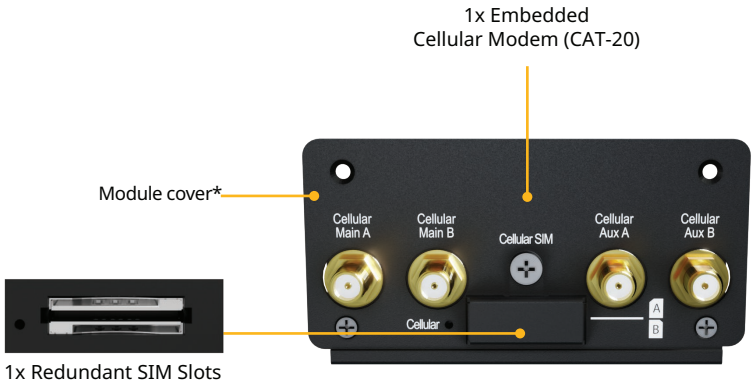

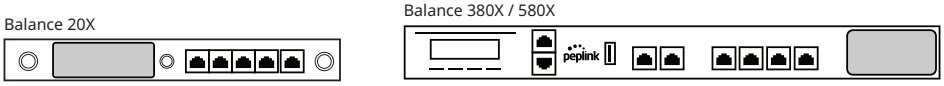

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Specifications

	1x LTE-A Pro Module (EXM-MINI-GLTE-S)
Interface	1x Embedded LTE-A Pro Cellular Modem with Redundant SIM Slots
Antenna Connectors	4x SMA Cellular Antenna Connectors
Downlink/Uplink Datarate	2Gbps/211Mbps (CAT-20)
Power Consumption	10W
Weight	0.83 pounds (375 grams)
Package Content	LTE-A Pro Module (EXM-MINI-GLTE-S) 4x LTE/5G Antennas (ACW-234)

Bands

Product Code	Description	Embedded Modem(s)	Regions	4G Bands	3G Bands
EXM-MINI-GLTE-S	Expansion Module with 1x LTE-A Pro modem (CAT-20)	1x LTE-A Pro (CAT-20)	Global*	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, B46, B48, B66, B71	HSPA+/WCDMA: B1, B2, B3, B4, B5, B6, B8, B9, B19

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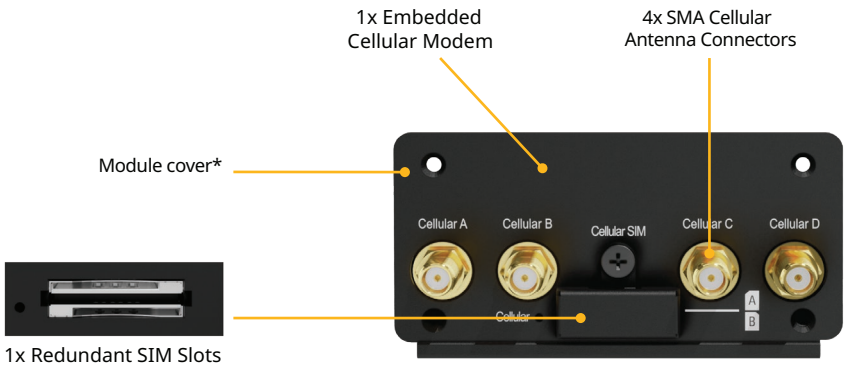
FlexModule Mini 5G

Expansion Modules for Balance 20X / 380X / 580X



*All devices come included with interchangeable module covers compatible for Balance 20X or 380X. Image for reference only.

Specifications

	1x 5G Module
Interface	1x Embedded 5G Cellular Modems with Redundant SIM Slots
Antenna Connectors	4x SMA Cellular Antenna Connectors
Downlink/Uplink Datarate	5G: 4 Gbps / 700 Mbps LTE CAT-20: 2 Gbps / 150 Mbps
Power Consumption	10W
Weight	0.83 pounds (375 grams)
Package Content	5G Module (EXM-MINI-15GH) 4x LTE/5G Antennas (ACW-235)

^ For Balance 20X, the cellular performance can be physically limited by the hardware and network it is hosted on.

Ordering information

Product Code	Description	Embedded Modem(s)	Regions	5G Bands	4G Bands
EXM-MINI-15GH	Expansion Module with 1x 5G modems	1x 5G	Primary: North America Compatibility: Global	**5G (NSA) Sub 6Ghz:** n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79	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, B48, B66, B71

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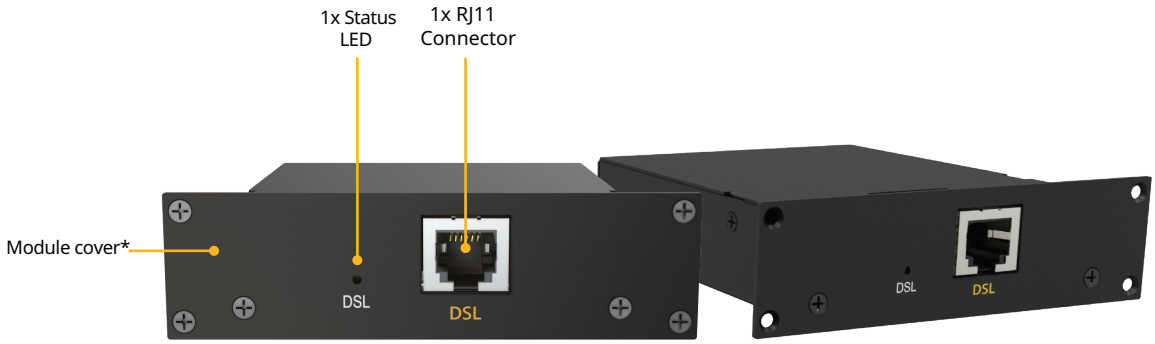
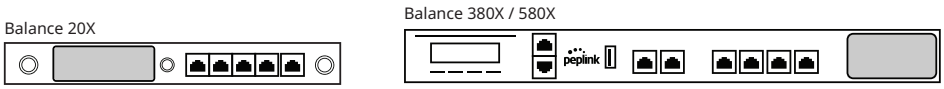
FlexModule Mini

Expansion Modules for Balance 20X / 380X / 580X





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Specifications

	1x VDSL Module (EXM-MINI-1VDSL)
Interface	1x RJ11 Connector, 1x Status LED
Power Consumption	9W
Weight	0.44 pounds (200 grams)

Ordering Information

Product Code	Description
EXM-MINI-1VDSL	Expansion Module with 1x VDSL modem

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FlexModule Mini

Expansion Modules for Balance 20X

*Supported models Balance 20X (HW2 or above)

Specifications

	1x LoRaWAN Module (EXM-MINI-LORA)
Interface	1x Embedded LoRa
Antenna Connectors	1x RP-SMA female antenna connector
Channel Capacity	8-channels (half-duplex)
LoRa demodulator	125 /250 / 500 kHz
LoRa Maximum Output Power	Up to +27 dBm
Typical sensitivity level	141 dBm at SF12 BW 125 kHz 127 dBm at SF7 BW 125 kHz 111 dBm at FSK 50 kbps
Weight	0.40 pounds / 180 grams

Ordering Information

Product Code	Description
EXM-MINI-LORA	Expansion Module with LoRaWAN
EXM-MINI-LORA-EU	Expansion Module with LoRaWAN

Bands

Product Code	Frequency Bands
EXM-MINI-LORA-EU	EU868, IN865, RU864
EXM-MINI-LORA	US915, AU915, AS923, AS925, KR920

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