

Balance 20X

(with FlexModule Mini LoRaWAN)

- 远程连接

具备 FlexModule Mini LoRaWAN 的 Balance 20X 可以在长达10英里的视线范围内保持您的传感器设备连接，无论是在偏远地区、城市地区还是室内环境。

应用领域

- 农业
- 智能医院
- 智能计量
- 石油和天然气





Pay Less For More

通过低功耗优化的Balance 20X (搭配 FlexModule Mini LoRaWAN) 可以降低基础设施、运营和电池更换成本。传感器设备可以实现长时间的电池寿命，仅需最小能量消耗，其电池寿命可长达10年。



Secure Your Connections

The Balance 20X (with FlexModule Mini LoRaWAN)利用LoRaWAN网络的嵌入式端到端AES加密。应用程序数据在从端到端传输时保持机密，即使对于网络本身也是如此。



Deploy the Balance 20X with Flexibility

The Balance 20X (with FlexModule Mini LoRaWAN)具有最多八个通道的容量，并且可以支持数十万个传感器设备。最大化无需许可的频谱，适用于任何物联网应用。

支持大多数常见的LoRaWAN网关数据包转发协议，如Semtech UDP Packet Forwarder和Semtech LoRa Basics(tm) Station。



Locate in Real Time

无需使用GPS，您可以启用不耗电量且成本低廉的跟踪应用程序。



Specifications

WAN Interface	1x GE 1x Embedded LTE Modem 1x USB Interface 1x Expansion Module (Optional)	Antenna Connectors	2x SMA Cellular Connectors 2x RP-SMA Wi-Fi Antenna Connectors 1x SMA GPS Antenna Connector
LAN Interface	4x GE	Power Input	DC Jack: 10V - 30V
Wi-Fi Interface	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 5	Power Consumption	6.83 W (nominal, with FlexModule Mini LTEA) 28 W (max.)
SpeedFusion Features	Hot Failover ¹ , WAN Smoothing ¹ , Bandwidth Bonding ¹	Dimensions	6.3 x 10.3 x 1.3 inches 160 x 262 x 33 mm
Number of SpeedFusion VPN Peers	2/5 ²	Weight	1.74 pounds / 0.67 kg
Router Throughput	1Gbps	Operating Temperature	14° - 113°F / -10° - 45°C
SpeedFusion VPN Throughput		Humidity	15% - 95% (non-condensing)
- No Encryption	100Mbps	Certifications	FCC, CE, RoHS
- 256-bit AES	60Mbps	Package Content	1x Balance 20X 2x LTE Antennas (ACW-813 or ACW-234) 2x Wi-Fi Dual Band Antennas (ACW-341) 1x GPS Antenna (ACW-232) 1x 2V 3A Power Supply (ACW-602)
Recommended Users	1-60	Warranty	1-Year Limited Warranty
Cellular Data Rate³ (Downlink/Uplink)	CAT-7: 300 Mbps / 150 Mbps CAT-6: 300 Mbps / 50 Mbps CAT-4: 150 Mbps / 50 Mbps		

¹ Requires PrimeCare Subscription, complimentary for the first year.

² 2 PepVPN Peers are enabled by default. 5 PepVPN Peers are enabled with PrimeCare Subscription, complimentary for the first year.

³ Theoretical maximum data rates.

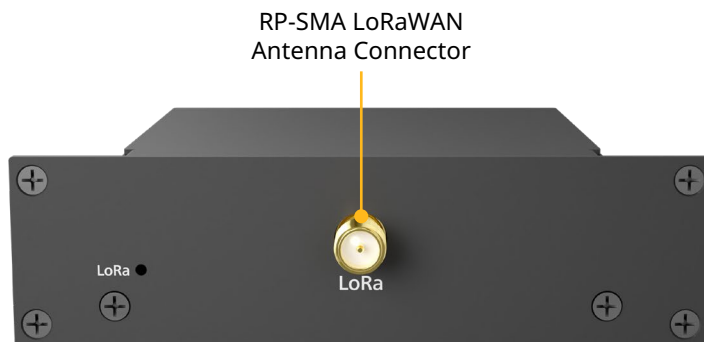
Ordering Information

Product Code	Regions	LTE Bands	3G Bands
BPL-021X-LTEA-US-T-PRM Embedded Modem(s): 1x CAT-7	North America* *US Carrier Certifications: AT&T, T-Mobile, Verizon	B2, B4, B5, B7, B12, B13, B14, B25, B26, B41, B42, B43, B48, B66, B71	HSPA+: B2, B4, B5
BPL-021X-LTEA-B-T-PRM Embedded Modem(s): 1x CAT-6	APAC & EMEA	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B48, B66, B71	HSPA+/WCDMA: B1, B2, B4, B5, B6, B8, B9, B19
BPL-021X-LTE-E-T-PRM Embedded Modem(s): 1x CAT-4	Europe/International	B1, B3, B5, B7, B8, B20, B38, B40, B41	WCDMA/HSPA+/DC-HSPA+: B1, B5, B8
BPL-021X-LTE-US-T-PRM Embedded Modem(s): 1x CAT-4	North America* *US Carrier Certifications: AT&T, T-Mobile, Verizon, US Cellular, FirstNet	B12, B14, B4, B2, B5, B13, B66, B71	B2, B4, B5
BPL-021X-LTE-MX-T-PRM Embedded Modem(s): 1x CAT-4	Latin America/Australia	B1, B2, B3, B4, B5, B7, B8, B28, B40	WCDMA/HSPA+/DC-HSPA+: B1, B2, B5, B8

Featured Add-on

Product Code	Description
PRM-A-1Y	1 Year PrimeCare Subscription for Balance 20X
PRM-A-2Y	2 Year PrimeCare Subscription for Balance 20X
PRM-A-4Y	4 Year PrimeCare Subscription for Balance 20X
PCP-A-1Y	1 Year PrimeCare Subscription for Balance 20X
PCP-A-2Y	2 Year PrimeCare Subscription for Balance 20X
PCP-A-4Y	4-Year PrimeCare Subscription for Balance 20X
LIC-VWAN	1x Virtual WAN Activation License
LIC-2VWAN	2x Virtual WAN Activation License
LIC-3VWAN	3x Virtual WAN Activation License

FlexModule Mini LoRaWAN



Specifications

Interface	1x Embedded LoRa	Operating temperature	0° – 149°F / 0° – 65°C
Antenna connectors	1x RP-SMA female antenna connector (LoRa)	Humidity	15% – 95% (non-condensing)
Weight	0.40 pounds / 180 g	Package contents	1x LoRa Module 1x LoRaWAN Antenna
		Certifications	FCC, CE (in progress)
		Warranty	1-Year Limited Warranty

LoRa details

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

Ordering Information

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