DataRemote 90X1

The 90X1 Device provides flexible connectivity options to cater to diverse communication needs. With its 5G/Cellular/WAN Wired Router capabilties and automated internet failover, this device ensures all critical equipment previously connected or dependent on the Public Switched Telephone Network (PSTN) can communicate seamlessly via the integrated ATA/MFVN with enhanced line support.

The 90X1 leverages its integrated battery backup and UPS power output capabilties to ensure power is provided to any approved device in the event of loss of power.

The 90X1's integrated ATA/MFVN enhanced line features support Machine to Machine (M2M), analog wireline in-band voice, FAX, alarm signals, etc...

DataRemote's innovative solution delivers an always-on experience even during power or Internet outages providing unmatched reliability no matter the conditions.



Key Features & Capabilities

Automatic Internet Failover & Recovery

- Seamless transition from WAN, and cellular interfaces in the event of loss of primary connection
- Graceful transition back to primary connection

Internal Backup Battery

- Integrated and patented battery backup with UPS External Power Output
- Internal battery backup supports up to 24 hours*

Legacy Analog Support

- Direct plug & play analog POTS / MFVN line replacement
- Analog modem signal transmission
- Legacy Analog FAX transmission

Networking

- Leverages redundant networks to provide best in class quality always-on experience
- Multi-Carrier Dual-SIM capable

Enhanced Line Features

Proprietary in-house developed enhanced line support*

- Support for Burglar and Fire Alarm signal transmission
- GNSS Location Based Service capability
- Key System / Paging
- Emergency Responder Access
- Analog M2M native support
- Legacy Analog data support for a wide variety of FSK enabled Modems

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Interfaces

- 5G Sub-6 GHz Module - supports 5G NSA & SA
- Covers most mainstream carriers worldwide
- 8 x RJ-11 FXS ports with Surge Protection
- 3 x RJ-45 Ethernet
  - 1 x 2.5GbE WAN/LAN Port(s)
  - 2 x 1GbE LAN Port(s)
- USB Type-A Port
- 2 x SIM Card slots - 2FF
- 4x SMA Antenna Port(s) - 4 5G/LTE
- UPS Power Output for Approved Devices
- LED Status indicators & Reset Button

Power

- DC input 19VDC, 4A Barrel Plug
- AC Power Adapter (Bundle-dependent)
  - Output: 19V, 3.3A
- UPS Power Output for Approved Devices
  - 12VDC, 4.0A
- Battery: 18 Cell 15Ah; Lithium-ion
- Internal Battery Standby: Up to 24 Hours*
- Battery is hot swap-able
- Graceful shutdown (Sends battery Alert)

Environmental

- Operation Temperature: 0° C to + 40° C
  - (32° F to 104° F)
- Storage Temperature: -40° C to + 70° C
  - (-40° F to 158° F)
- Relative Humidity: 10% to 90% Non-Condensing
- Height: 4.5”
- Length: 6.00”
- Width: 9.8”

Call Features

- One number dialer capable
- DTMF: In-band, out of band
- Audio Support (G.711 & G.729)
- Echo Cancellation (G.168)
- CPC - Calling Party Control
- E911 Support with Geo-location
- TTY/TRS Capable
- Caller ID/CWCID
- 3-way conference
- Call hold, forwarding, transfer, waiting

Management Capabilites

- Developer API for device integration
- Secure/Restricted Web-based Management
- Mass device management and provisioning
- Line status monitoring with alert capabilities

Optional Wired NAT Router

- Firewall
- QoS for VoIP
- IP Pass-through
- DHCP Server and Client

Certifications

Cellular Specifications

Variant		RM520N-GL
5G NR	5G NR	3GPP Release 16 NSA/SA operation, Sub-6 GHz
	NSA Bands	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
	SA Bands	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
	Sub-6 CA	FDD + FDD, TDD + TDD, FDD + TDD 2CA
	DL 4 x 4 MIMO	n1/2/n3/n7/n25/n30/n38/n40/n41/n48/n66/n77/n78/n79
	UL 2 x 2 MIMO	n38/n41/n48/n77/n78/n79
LTE	LTE Category	DL Cat 19/ UL Cat 18
	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/B66/B71
	DL 4 x 4 MIMO	B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66
UMTS	WCDMA Bands	B1/B2/B4/B5/B8/B19

*Battery actual time may vary based on usage

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