DIGI ROUTER WR21

Item No.: 493.426

DESCRIPTIONS OF FUNCTIONS

The Digi Router WR21 is a fully featured cellular router, which offers primary and backup WWAN connectivity over 3G and 4G.

Due to flexible power and connectivity options, the Digi Router WR21 is suitable for both commercial and industrial applications.

Advanced security, redundancy and management features make it possible to use the Digi Router WR21 in PCI or NERC-CIP compliant applications.

TECHNICAL DATA

Power supply:

Voltage	9 ... 30 V DC (18 W min power source required)
Consumption	4 W typical (Idle); 12 W typical (Peak Tx/Rx)

Physical Characteristics:

Dimensions (LxWxH)	3.9 x 5.2 x 1.3 in (100 mm x 131 mm x 32 mm)
Weight	1.08 lbs. (0.49 kg)
Operating temperature	-35 … 70° C (Reduced cellular performance may occur above +50° C)
Relative humidity	0 ... 95 % (non-condensing) at 25° C
Enclosure material/rating	Industrial (Metal)/ IP30
Mounting	Including Brackets for wall mount & DIN rail

WIRELESS INTERFACES

Cellular:
(Transfer rates are theoretical and network operator dependent)

LTE – North America (M5)	LTE CAT 4: 700(B12,13)/850(B5)/AWS(B4)/1900(B2) 3G HSPA+: 850/1900 MHz Transfer rate (max): 150 Mbps down, 50 Mbps up Approvals: PTCRB, AT&T, Verizon, Telus (pending)
Connectors	(2) 50 Ω SMA (center pin: female)
Sim slots	(2) Mini-SIM (2FF)
Sim security	Optional SIM slot cover plate
Channels	12 channel, continuous tracking
Sensitivity	Tracking1: -161 dBm; Acquisition2 (Assisted, non-LTE): -158 dBm; Acquisition (Assisted, LTE): -153 dBm; Acquisition (Standalone): -145 dBm
Protocol	NMEA 0183 V3.0
Cold start	< 0.2 m/s
Horizontal accuracy	< 2 m (50%); < 5 m (90%)
Velocity accuracy	< 0.2 m/s

WIRED INTERFACES

Serial:

Ports	(1) DB-9; DCE
DTE/DCE	DCE
Signal support	TXD, RXD, RTS, CTS, DTR, DCD, DSR, RI
Flow control	Software (XON/XOFF), hardware supported

Ethernet:

Ports	(2) RJ-45; 10/100 Mbps (auto-sensing)

USB:

Ports	(1) USB 2.0 Type A

MANAGEMENT

Remote management	Digi Remote Manager (cloud based); SNMP v1/v2c/v3 (user installed/managed)
Local management	Web interface (HTTP/HTTPS); CLI (Telnet, SSH, SMS, Serial Port)
Management/ troubleshooting tools	FTP, SFTP, SCP; Protocol analyzer with PCAP for Wireshark; Event logging with Syslog and SMTP; NTP/SNTP
Memory	128 MB NAND Flash/128 MB DDR2 SDRAM

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