Portable DOCSIS 3.1 Coax Network Meter

CGN-DP3

The CGN-DP3 is a powerful troubleshooting coax network meter at a cost-efficient price point. Featuring weather-resistance and portability, the DOCSIS 3.1 meter provides all major testing features required for both DOCSIS and DVB-C network environments with detailed results communicated via a mobile device (Android /iOS) using Hitron's ProMeter mobile app.

DOCSIS 3.1	1GigE	MoCA 2.0
DOCSIS 3.1/3.0/2.0/1.1 with EuroDOCSIS compliant	One Gigabit Ethernet Port	Support MoCA power spectrum display

ProMeter

Mobile App support (iOS/Android)

Advanced feature

Key Features

- DOCSIS 3.1/3.0/2.0/1.1 with EuroDOCSIS compliant
- DOCSIS WAN, logger and provisioning status
- Wi-Fi 2x2 5GHz 802.11ac and 2x2 2.4GHz 802.11n dual band internal antennas
- Mobile App support (iOS / Android)
- 1 x RJ-45 Ethernet port 10/100/1000Mbps
- LTE detection
- AC detection
- Full frequency spectrum support
- IQ constellation
- Pre-equalizer analysis
- Switchable Upstream 5-42/5-85MHz
- Buffers for persistence mode analysis
- QAM measurements
- Downstream OFDM/OFDMA Metrics
- Fast reposting available QAM channel
- Speed test (Optional)
- Channel plan scan (Optional)

Application

Coax Cable

ProMeter

CGN-DP3 — iOS/Android App

Specifications

Reception-Demodulation

- DOCSIS 3.1/3.0/2.0/1.1 with EuroDOCSIS compliant
- DOCSIS 3.1 demodulation: Multi carrier OFDM 16 to 4096QAM
- DOCSIS 3.1 data rate: Up to 1Gps with 1 OFDM 192MHz downstream channels +32 QAM
- DOCSIS/EuroDOCSIS 3.0 demodulation: 64QAM, 256QAM
- DOCSIS/EuroDOCSIS 3.0 data rate: Up to 1.3/1.7Gbps with 32 bonded downstream channels
- Frequency (edge to edge):
  • 54~1218MHz /108~1218MHZ (DOCSIS/EuroDOCSIS)
  • 1350~1675MHZ(MoCA2.0)
- Channel bandwidth:
  • 6/8 MHz (DOCSIS/EuroDOCSIS 3.0)
  • 100Mhz (MoCA2.0)
- Signal level: -15dBmV to 15dBmV
- Input return loss: >6dB

Transmitter Modulation

- DOCSIS 3.1/3.0/2.0/1.1 with EuroDOCSIS compliant
- DOCSIS 3.1 modulation: OFDMA BPSK to 4096QAM
- DOCSIS 3.1 data rate: Up to 700Mbps with OFDMA
- 96MHz upstream channels
- DOCSIS/EuroDOCSIS 3.0 modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS/EuroDOCSIS 3.0 data rate: Up to 320Mbps with 8 bonded upstream channels
- Frequency:
  • switchable 5-85/5-42MHz
  • 1350~1675Mhz (MoCA2.0)
- Upstream transmit signal level: +11 to 65dBmV
- Output return loss: >6dB

Wireless

- Dual band Wi Fi 802.11a/b/g/n/ac
- 2T2R 5GHz (5180MHz-5240MHz band 1, 5748-5825MHz band 4) 802.11ac with 400Mbps PHY data rate
- 2T2R 2.4GHz (2412MHz-2462MHz) 802.11n with 150Mbps PHY data rate
- 20/40MHz channel bandwidth
- Up to 4 SSIDs for each frequency
- Security: WPS, WPA, WPA2, WPA PSK and 64/128 bit WEP encryption
- Wi-Fi output power range (EIRP) for North America & Europe
  • 2.4G (.11n, HT: 20): 16dBm
  • 2.4G (.11g ,HT: 20): 17dBm
  • 2.4G (.11b ,HT: 20): 20dBm
  • 5G (.11ac, HT: 20): 10 dBm
  • 5G (.11ac, HT: 40): 11 dBm

Interfaces

- 2 x RF F type male 75 Ω connector
  • 2 x female F 81 Coax Barrels included
- LTE antenna 699~960MHz and 1710~2690MHz
- 1 x RJ 45 Ethernet port 10/100/1000 Mbps (Auto-MDI/MDIX)
- 2 x USB2.0 (5V, 1A)

Management

- App based GUI for configuration and ProMeter management
- Power on self diagnostic
- MIB II/MCNS MIB
- Protocol support: SNMP v1, v2C, v3

Mechanical

- 7 status LEDs (Power, Wi Fi, DS, US, Status, Charge, Bat)
- Factory reset button
- Forced power off button
- Power restart button
- Dimensions: 165mm (W) x 210mm (H) x 79mm (D)
- Weight: 1100g±10g

Electrical

- Power adaptor: 100 240VAC, 50/60hz to 12VDC, 5A
- Power input: 12VDC
- Power consumption: 32W (typical), 48W (max)
- Battery: lithium battery cells 8850mAh(8h of typical operation, 4.5h full load, 4h to charge)
- Surge protection: RF input sustains 2KV, Ethernet RJ-45 sustains at least 4KV

Environmental

- Operating temperature: -14°C (7°F) - 42°C (108°F)
- Operating humidity: 10% 90% (non condensing)
- Storage temperature: -40°C (-40°F) - 80°C (176°F)
- Indoor use

Optional Functionalities

- Speed test
- Firmware & APK Upgrade
- Channel plan customization

Package Contents

- Zip shell case (with Velcro tablet case, removable pouch, shoulder strap and carabineer)
- 12VDC 5A power supply and its power cord
- (2) F81 coax barrels
- The battery (installed)

Regulatory Compliance

- RoHS
- FCC, IC, CE, UL
- NCC
- MIC 217-210238

USB   LAN   POWER

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