

Wireless DOCSIS 4.0 Meter

The CGNDP4 is a weather-resistant, portable DOCSIS 4.0 meter providing all major testing features required for both DOCSIS and DVB-C network environments with detailed, comprehensive results communicated via a mobile device (Android /iOS) using Hitron's ProMeter mobile app. An Intel Puma 8, OFDM 5x7 with 5GHz WiFi means powerful troubleshooting at a cost-efficient price point.



Portable DOCSIS 4.0 Meter

The CGNDP4 Coax Network Testing Meter has a DOCSIS 4.0/3.1/3.0/2.0/1.1 compliant cable modem to ensure interoperability with all existing cable systems. Further, the CGNDP4 features a 10 Gigabit Ethernet port and 802.11be wireless LAN access point combined to simplify cable connectivity testing and troubleshooting.

Detailed Diagnostics Supported

All diagnostic readings from the CGNDP4 are displayed on Hitron's handy mobile app ProMeter, compatible with your technician's existing smartphones or tablets* (iOS/Android). ProMeter provides powerful detailed insights such as upstream/downstream, spectrum, channel scan, MER, Flux, QAM analysis, OFDM, OFDMA, Ingress, Noise, Ping and Traceroute, and SnapShot, a proprietary feature that takes a "snapshot" of the network at a particular time. ProMeter also includes a SpeedTest that measures speeds over 9 Gbps.

Key Features

- One 10 Gigabit Ethernet Port
- Switchable Upstream (5-85/204/396/684MHz)
- DOCSIS 4.0/3.1/3.0/2.0/1.1 Compliant
- DOCSIS WAN
- DOCSIS Logger
- DOCSIS Registration Status
- AC Detection and Rejection
- Full Frequency Spectrum Support up to 1.8 GHz
- IQ Constellation
- Pre-equalizer Analysis
- Speed Test
 - via Coax
 - via Ethernet to CPE
- QAM Measurements
- Optional Cloud Data Collection & Reporting
- Battery Supports up to 8 Hours of Operation



Features & Benefits

Next-Gen DOCSIS 4.0 Diagnostic Engine

The CGNDP4 supports DOCSIS 4.0, enabling technicians to test and validate next-generation HFC networks designed for multi-gigabit and symmetric services. This ensures accurate measurement of network performance and readiness as operators evolve beyond DOCSIS 3.1.

App-Driven Testing Workflow

The CGNDP4 pairs with the ProMeter mobile app on iOS and Android devices, delivering real-time test results on familiar smartphones or tablets. This app-based workflow reduces training time, simplifies operation, and eliminates the need for dedicated display hardware.

Advanced Cable & Network Diagnostics

The CGNDP4 provides comprehensive upstream and downstream diagnostics, including spectrum analysis, channel metrics, noise and ingress detection, and IP connectivity tests. These tools help technicians quickly isolate issues across the coax plant and customer premises.

High-Performance 5 GHz Wi-Fi Access

The integrated 5 GHz Wi-Fi interface provides a reliable, high-throughput wireless link for mobile app communication, meter control, and data transfer during testing. In addition to device connectivity, 5 GHz operation enables practical in-home Wi-Fi validation and coverage assessments, supporting activities such as signal mapping and performance checks. By leveraging the widely deployed 5 GHz band, the CGNDP4 simplifies wireless test workflows while offering a strong indicator of overall household Wi-Fi coverage conditions.

Field-Ready, Rugged Portable Design

Designed for real-world field use, the CGNDP4 features a durable, ergonomic enclosure and long battery life. Its portable design supports reliable operation at the headend, outside plant, or customer location.

Operational Efficiency & Lower Costs

By combining DOCSIS 4.0 diagnostics with mobile app operation, the CGNDP4 helps reduce truck rolls, shorten troubleshooting time, and improve first-visit resolution. This future-ready meter supports network upgrades while controlling operational costs.

Strengthen your Service Offering

AI-Powered Network Intelligence

Hitron ProPulse™ strengthens your service offering by applying AI and advanced analytics to transform raw network data into actionable insight. By continuously analyzing performance trends, anomalies, and device behavior, ProPulse helps operators detect issues earlier, prioritize the right fixes, and reduce repeat service calls. The result is a smarter, more proactive network that improves subscriber experience while lowering operational costs.

Real-Time Field Visibility

When combined with ProMeter® and HitronCloud®, ProPulse extends intelligence from the network to the field. With the appropriate subscription level, supervisors can see exactly what technicians see in ProMeter—live and in real time—enabling instant guidance, faster troubleshooting, and fewer escalations. This shared, cloud-based visibility improves first-time fix rates, shortens training cycles, and ensures consistent service quality across the technician workforce.

SPECIFICATIONS

CGNDP4

Interfaces

- 2x RF F-Type 75Ω Male Connector
- 2x Female F-81 Coax Barrels included
- 1x 10GBASE-T Ethernet Port (Auto-MDI/MDIX)

DOCSIS

Reception-Demodulation

- DOCSIS 4.0/3.1/3.0/2.0/1.1
- DOCSIS 4.0
Demodulation: Multi-carrier OFDM 16 to 4096QAM
- DOCSIS 3.1 using 2 OFDM 192MHz Downstream Channels + 32 SC-QAM
- DOCSIS 3.0
Demodulation: 64QAM, 256QAM
- DOCSIS 3.0 using 32 Bonded Downstream Channels
- Frequency (edge-to-edge): 54-1218MHz / 108*1218MHz / 254-1218MHz
- Channel Bandwidth: 6/8MHz (DOCSIS 3.0)
- Spectrum Measurement Range: -100dBmV to +50dBmV

Transmitter-Modulation

- DOCSIS 4.0/3.1/3.0/2.0/1.1
- DOCSIS 4.0 Modulation: OFDMA BPSK to 4096QAM
- DOCSIS 3.1 Data Rate: Up to 700Mbps with OFDMA 96MHz Upstream Channels
- DOCSIS 3.0 Modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS 3.0 Data Rate: Up to 320Mbps with 8 bonded Upstream Channels
- Frequency: Switchable 5-42MHz / 5-85MHz / 5-204MHz
- Upstream Transmit Signal Level: +11 to 65dBmV
- Output Return Loss: >6dB

Wi-Fi

Wi-Fi Characteristics

- High Power Design for Multi-radio Co-location
- Supports 5180MHz-5240MHz UNII-1, 5748-5825MHz UNII-3 Bands

SPECIFICATIONS

CGNDP4

Management

- ProMeter App-based GUI for configuration and management
- Power-on Self-Diagnostic
- MIB II/MCNS MIB
- Protocol Support: SNMP v1, v2C, v3

Mechanical

- LEDs: 7 Status LEDs (Power, Wi-Fi, DS, US Status, Charge, Bat)
- Factory Default Reset Button
- Forced Power Off Button
- Power Restart Button
- Dimensions: 210mm (H) x 165mm (W) x 79mm (D)
- Net Weight: 1300 +/- 10g

Electrical

- Input Power: 12VDC, 5A
- Power Adapter: 100-240VAC, 50/60Hz to 12VDC
- Battery: Lithium Battery Cells 8850mAh
- Battery: ~8h of Typical Operation, ~4h Full Load, ~4h to Charge
- Surge Protection
 - RF Input sustains at least 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)
- Water Resistant

Regulatory

- FCC Part 15 Class B Subpart B, Part 15.247, Part 15.407, Part 2.1091
- ICES-003 Issue 6, Class B
- RoHS Compliant



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