



NOMAD BY BRIDGE TECHNOLOGIES

NOMAD - MEDIA PROFESSIONALS' MOST VERSATILE COMPANION

NOMAD

NOMAD

- As technologies become more and more complex, using NOMAD will give invaluable insight into modern media signal behaviorisms
- NOMAD covers the monitoring needs encountered in hybrid IP multicast, OTT and RF networks
- Analyse of RF transmitted DVB signals as well as OTT and Multicast/Unicast IP transmissions
- Comprehensive IP packet analysis tools, NOMAD is ideal for IP transport understanding regardless of the media transported
- The ultimate all-in-one monitoring and analysis solution for the technician on the move
- NOMAD contains a WiFi zone, by pointing a laptop towards this, the unit is ready for use
- Designed to replace old-school PCI cards, USB based dongles and other laptop dependent devices, NOMAD is a complete free-standing unit with its own CPU
- Can be left to monitor signals by itself without the need for a host system



OTT MultiScreen stream analysis of HLS, M-DASH, IP multicast, ASI and SDI over IP

NOMAD INTERFACES

ETHERNET

- 10/100/1000T Gigabit Ethernet interface for video/data analysis
- SFP port for optical Gigabit connectivity
- Optional second Gigabit Ethernet port
- Web-based management interface optionally on all ports
- SSH/TELNET terminal
- Relay video multicasts to 3rd party targets using RDP
- Laser power received level for fault finding on SFP

WiFi

- Provides 2.4 GHz Wireless Access Point service
- No setup - Nomad is WiFi Zone
- USB 2.0 IEEE 802.11 b/g/n 150Mbit/s dongle

RF monitoring of Satellite, Terrestrial and Cable sources



NOMAD INTERFACES

DVB-S/S2 SATELLITE

- Supports DVB-S and DVB-S2 8PSK, 16APSK, 32APSK, GOLD CODES
- L-band input from 950 - 2160 MHz
- Symbol rate range between 1 - 45 MS/s
- 13V/18V/22kHz and DiseqC 1.0 capable for switch control
- High-end RF performance with constellation diagram and over 20 RF parameters
- Auto-scan feature

DVB-T/T2/C TERRESTRIAL & CABLE

- Supports DVB-T EN 300-744 and DVB-T2 EN-302-755 (v1.3.1)
- Supports ITU.T J.83 Annex A/C for cable networks (QAM16 up to QAM256)
- Frequency range: 43 - 1002 MHz. Bandwidth 5, 6, 7 and 8 MHz
- Channel Impulse Response diagram & constellation diagram for DVB-T/T2

NOMAD INTERFACES

1PPS

- Offers GPS synchronization down to 0.1 us accuracy
- Allows absolute network delay in SFN/T2MI networks to be measured
- Allows Center Frequency Offset measurements on DVB-T/T2

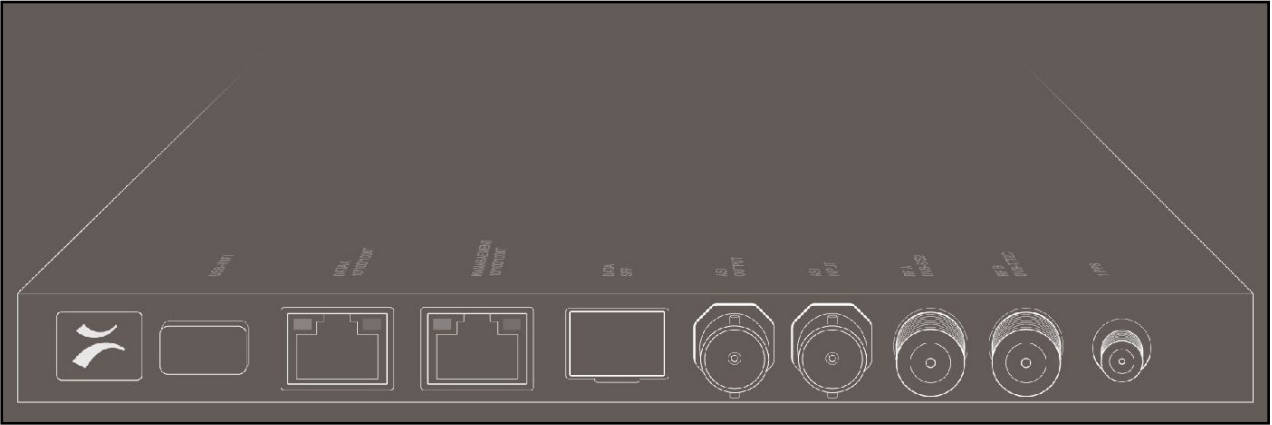
ASI

- ASI input according to EN 50083-9, Annex B
- Supports Burst mode, Spread Mode and legacy M2S
- Output selectable feed from ASI, DVB-T/T2/C or DVB-S/S2 input
- Up to 211Mbit/s incoming rate (linespeed ASI)

Breakthrough design for any broadcast and telecom environment



NOMAD



INTERFACES

- USB-WiFi
- Data A 10/100/1000T
- Management 10/100/1000T
- Data B SFP
- ASI Output
- ASI Input
- RF A DVB-S/S2 Satellite
- RF B DVB-T/T2/C Terrestrial & Cable
- 1PPS
- Power 12V / Serial

PHYSICAL

- Dimensions: width x length x height (mm): 180x230x20
- Weight: 0.9 kg
- Power usage (max): 22 Watts
- Power supply: External power unit +12V, 1.8A (included)
- Operating temperature: -20 up to +45 degrees C
- Operating humidity: 5% up to 95% non-condensing
- Initial setup by Wi-Fi, Ethernet or separate USB Type-A cable (included)

“NOMAD is a breakthrough design with close to every conceivable interface for media signal monitoring and analysis”

NOMAD TECHNOLOGIES

- NOMAD features a plethora of our award-winning and patented technologies
- Culmination of 12 years of accumulated engineering knowledge and R&D in IP and broadcast monitoring
- NOMADs user interface is via Bridge Technologies' MediaWindow™ visualisation technology, which allows complex structures and data to be understood
- Technologies used by experts/non-experts, to analyse and take corrective actions quickly and easily

WEB INTERFACE Intuitive GUI for remote access via Wi-Fi or cabled Ethernet	PACKET ANALYSIS Accurate packet behaviour, IAT histogram, protocol analysis and traffic, autodetection of IP uni/multicast	OTT/MULTISCREEN HLS, HDS, M-DASH, SmoothStream™, RTMP, post-CDN URL token support and manifest validation. Innovative framework for measuring delay of OTT service through distribution chain	MULTICAST/UNICAST IP Microsecond-accurate and detailed multicast packet monitoring, analysis and alarming with readout and alarming on key parameters relevant to video	RDP™ FORWARDING AND RECORDING Return Data Path forwarding of any transport stream monitored with automated alarm triggered recording to 32GB of on-board Flash memory
GOLD TS™ Innovative Gold TS framework: part of the award-winning ETR290 Engine for recording a perfect transport stream table set and then can be compared and alarmed against a template	POWERFUL IP TOOLS ICMP PING and TraceRoute can be done from inside a location remotely and PING can be setup to alarm if remote device stops responding	MEDIA FORMAT SUPPORT MPEG2-TS, H.264/AVC HD, H265/HEVC 4K, AAC, PCM Audio, SCTE-35 signalling, T2-MI encapsulation and more	MEDIA WINDOW™ Total packet understanding with the patented MediaWindow™ visualisation technology for RTP/UDP uni- and multicasts	ETR290 ANALYTICS The award-winning ETR290 Engine with detailed analytics of Priority 1, 2 and 3 tests plus extensions to test CA behaviour, alarm history view, timeline view and much more
OBJECTIVE QoE ENGINE Freeze frame, color frame, audio silence detection on services from any NOMAD input	AUTONOMOUS OPERATIONS NOMAD is a completely freestanding unit with its own CPU and can perform without the need for any external host system	PCAP CAPTURES PCAP Ethernet packet capture onto on-board RAM, filesystem storage accessible via web interface for offline analysis using tools such as Wireshark or tcpdump	SDIoIP Compliant with SMPTE2022.6, 2022.7, IEEE4175 and AES67 IP-Streams for SDI analytics. AIMS and ASPEN compliant	LOTS OF EXPANSION CAPABILITIES Software options as the "bigger brothers" in the Bridge Technologies family

www.nomadportable.com

NOMAD

INTERFACES

TECHNOLOGIES

TECH SPEC

Nomad - media professionals most versatile companion

With support for every modern media technology the Nomad is the Swiss-army-knife of digital media, enabling instant understanding and deep analytics of OTT MultiScreen streams like HLS and DASH, IP multicast, SDI over IP to traditional ASI, Satellite, Terrestrial and Cable sources.



PURCHASE

REGISTER

NOMAD - MEDIA PROFESSIONALS' MOST VERSATILE COMPANION

NOMAD

NOMAD DEMO

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vbc.bridgetech.tv

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Password: nomad

