



Productivity and Safety through
Mine-Spec digital applications

FUSION
link



Network bridging via dedicated in-vehicle platform

Vehicle telemetry during operations

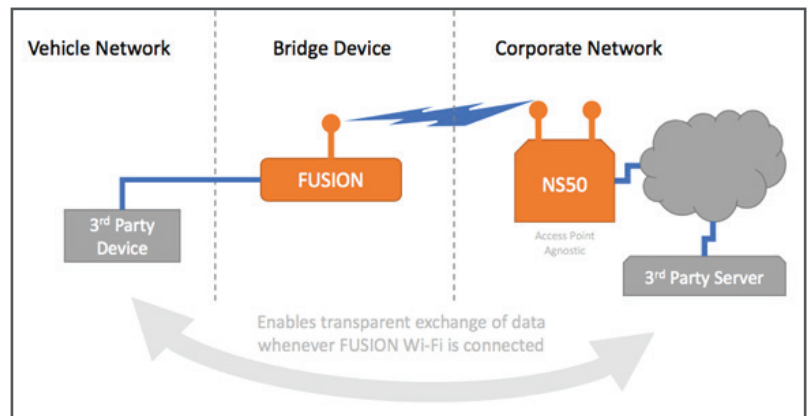
MinePhone compatible

Network Agnostic

FUSION Link is network bridge between ethernet and Wi-Fi that allows seamless access to device data during operations.

FUSION Link provides bespoke software that extends the Wi-Fi capabilities of MST's FUSION platform, enabling seamless bridging of a local vehicle network with corporate network, without the need to install and manage dedicated hardware. This solution works best for underground construction and mining customers, where vehicles are in continuous use across the day, and connectivity options other than Wi-Fi (e.g. LTE) may not be an option.

The FUSION platform is built on MST's FUSION Voice head unit - proven hardware (the Tait UnifyVehicle platform) which incorporates a Wi-Fi radio and external antenna and is optimised for roaming on the MST IMPACT software network. The combination of FUSION Voice and FUSION Link effectively fills the gap in digital communications where hybrid communication technologies exist on a work site. Additionally, it offers far more features above traditional radio units, including the ability to operate in either Wi-Fi coverage areas or radio coverage areas by the simple flick of a switch.



SPECIFICATIONS

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Hardware Model

- FSN-PLATFORM-01

Module Compatibility

- FSN-VOICE

Dimensions

- Body: 52mm x 160mm x 175mm
- Control Head: 71mm x 184mm x 35mm

Weight

- Body: 1.2kg
- Control Head: 0.33kg

Power Supply

- DC: 10.8-16VDC
- AC: Desktop PSU 100-130V or 200-250V (not included)

Rated Audio

- Internal speaker: 3W

Environmental

- Water and Dust: IP54
- Operating Temperature: -30°C to 60°C

Regulatory

- USA: CFR47
- Canada: RSS-119
- Europe: EN300-086, EN300-113, EN300-219, EN301-489, EN60950
- Australia/New Zealand: AS/NZS4295 AS/NZS43652

Emissions Designators

- 11K0F3E, 16K0F3E*, 6K60F2D, 7K80F2D, 9K60F2D*, 10K8F2D*, 7K60FXW, 7K60FXD
- *Wideband operation is not available in the USA in some bands

IP NETWORKING

Wi-Fi Interface

- Wireless Standard: IEEE 802.11g
- Security: WPA2
- Transmit Power: Max + 19dBm
- Receive Sensitivity: 6Mbps (-87dBm), 54Mbps (70dBm)

LAN Interface

- Connector: RJ45
- Standard: IEEE 802.3 100BASE-TX 10BASE-T

Supported Protocols

- TCP/UDP/IP, IPV4, DNS ARP, Static IP DHCP
- Real Time Transfer Protocol (RTP) RFC 1889/ RTCP FC 1890
- MST Device Discovery
- Software and configuration updates by TFTP

IP VOICE MODULE

IP Push To Talk (PTT)

- 30 site configurable channels
- Broadcast channel
- Man Down Emergency Override

Audio Features

- G.711 (A-Law & μ-Law 64kbps)
- Jitter buffer control (default 80ms, max 320ms)
- Acoustic echo cancellation

IP LINK MODULE

- Layer 2 bridging of ethernet to Wi-Fi



MST offices and support centers are strategically located in the world's primary mining regions.

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