

The Etherstack **IVX IP Radio** provides high-quality, low-latency, voice and data mobile connectivity seamlessly over multiple bearers in a highly compact form-factor.

The IVX connects with up to four LMR devices simultaneously to provide continuous communication over multiple protocols including:-

- P25-Phase I and II, conventional & trunked
- DMR Tier II / III
- NXDN
- TETRA
- Analog HF and FM

Two wired Ethernet interfaces are provided for connection to satellite, or other IP, bearers enabling seamless worldwide connectivity when no terrestrial networks are available and on a Least-Cost Routing (LCR) basis.

An optional, dual-SIM, 3G/4G/5G cellular modem enables connectivity to terrestrial networks and use of LMR protocols over cellular whilst retaining encryption and LMR calling meta-data (e.g. group calling, emergency calling, location data etc).

An additional analog, 4-wire E&M interface, is provided for connection to legacy analog LMR devices and enable cross-protocol repeating.

Etherstack IVX Interfaces	
LMR (Digital or Analog) 4x maximum simultaneous	via D-sub Micro-D 15-Way RS232, 4-Wire E&M
Ethernet (Satellite)	via 2x 10/100 RJ45
Cellular (3G/4G/5G)	via 2x SMA Female
WiFi / Bluetooth	via 1x SMA Male
GPS	via 1x SMA Female
Serial	via 1x USB



User Interface Controller (Green and Black) + IVX (Front)



IVX (Back) - LMR and RF interfaces

Etherstack IVX Modes of Operation	
Multi-Bearer Mobile Communications	Single, intuitive, user interface controller (UIC) providing multiple LMR bearers plus Cellular and Satellite
In-Vehicle Repeater (IVR)	In-Band, Out-of-Band / Cross-Band LMR Repeater
Wireless LMR Network Extender	With multiple LMR radios attached, the IVX can extend the reach of LMR networks
Wired LMR Network Extender	Via wired DFSI connection IVX can extend an existing P25 network
Wireless Access Point	Local WiFi backhauled over any permitted IP network
P25 Radio Mode over IP	End-to-end encrypted P25 over Cellular, Satellite, WiFi or Ethernet without needing an attached P25 radio
Location Services / Emergency Management	Track IVX across any / all bearers to ensure worker safety and support emergency functionality

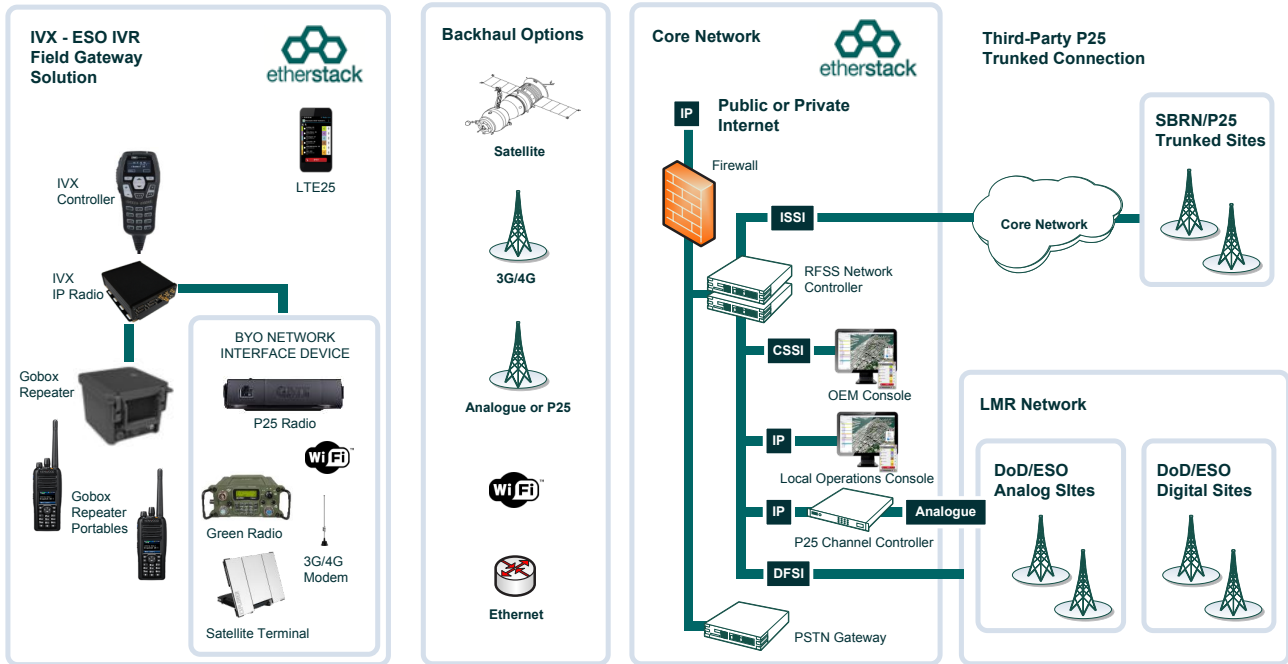
Supported Manufacturers and Service Providers

Cellular	ATT / FirstNet, Bell, Rogers, Telus, T-Mobile, Verizon
LMR	BK Technologies, GME, L3Harris, Icom, Kenwood, Motorola, Simoco, Tait
Satellite	BGAN, Iridium, VSAT, Government, Others

Want to learn more about the IVX?

Email us at info.au@etherstack.com
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Flexible - As user needs and system complexity grows over time, the IVX platform can be re-configured to support many more

operational scenarios. This ensures that the initial investment is not wasted as your system expands or is built out.

Single User Interface - The IVX is coupled with a rugged, high-contrast OLED User Interface Controller. This reduces clutter in the

communications operating environment, yet still enables the user to access all attached communication equipment quickly and

Etherstack IVX Specifications

Physical - IVX, including mounting plate	D: 5.63" / 143mm H: 1.85" / 47mm W: 4.33" / 110mm Weight: 0.7 pounds / 400 grams Material: Aluminum	Physical - Single User Interface Controller	D: 6.41" / 162.8mm H: 1.14" / 28.9mm W: 5" / 127mm Weight: 1.37 pounds / 620g Keypad: 0-9,*,+,-, PTT, Duress, plus programmable buttons Display: Hi Vis. OLED, 128x64 + backlit keypad
Electrical	10.8v - 32v DC negative earth Power Consumption 4W (typ.), 6W (max. with 3G/4G active, max. volume, GPS scanning)	Security	DES AES-256 ECB, OFB, CBC
Interfaces	Front: 3x RJ45 (2x Ethernet, 1x UIC) Back: 3x Digital LMR / RS232 1x D-sub 4-Wire E&M / Balanced Audio 3x D-sub SMA Female (2x Cellular, 1x GPS) 1x SMA Male (WiFi / Bluetooth) 1x USB-C 2.0 1x DC Power 2.5mm x 5.5mm Female Barrel	Cellular Bands	Present 3G - B1,5,8 Future 3G - B1,2,4,5,6,8,9,19 Present 4G - B2,4,5,12,13,14,17,66 Future 4G - B1,2,3,4,5,7,8,9,12,13,14,18,19,20,26,29,30,32,41,43,46,48,66
RF	WiFi (802.11b/g/n) - 2.4GHz Bluetooth (v4.2) - 2.4GHz GPS - 1.2GHz, 1.5GHz	Supported Call Types	Individual, Group, Broadcast, Emergency Encryption, Man-down / Duress, Location Services, PSTN

All specifications are subject to change without notice.

Warranty and Support

Etherstack offers a comprehensive warranty and support package to back up our product range. This package keeps you up to date with the latest innovations in the TIA-102 P25 suite of standards.

