5G Modems in all systems

Model: Qualcomm Snapdragon (SD) x55 modem, Cat. 20
Coverage: Worldwide 5G coverage with 3G/4G fallback
Power Class 2, max. TX power 400mW

MAXIMUM SPEED per modem:

Download: 2.0 Gbit/s per modem, 7xCA, max. Modulation 256QAM
Upload: 211 Mbit/s per modem, 2xCA, max. Modulation 256QAM

SUPPORTED RF BANDS (Worldwide Coverage)

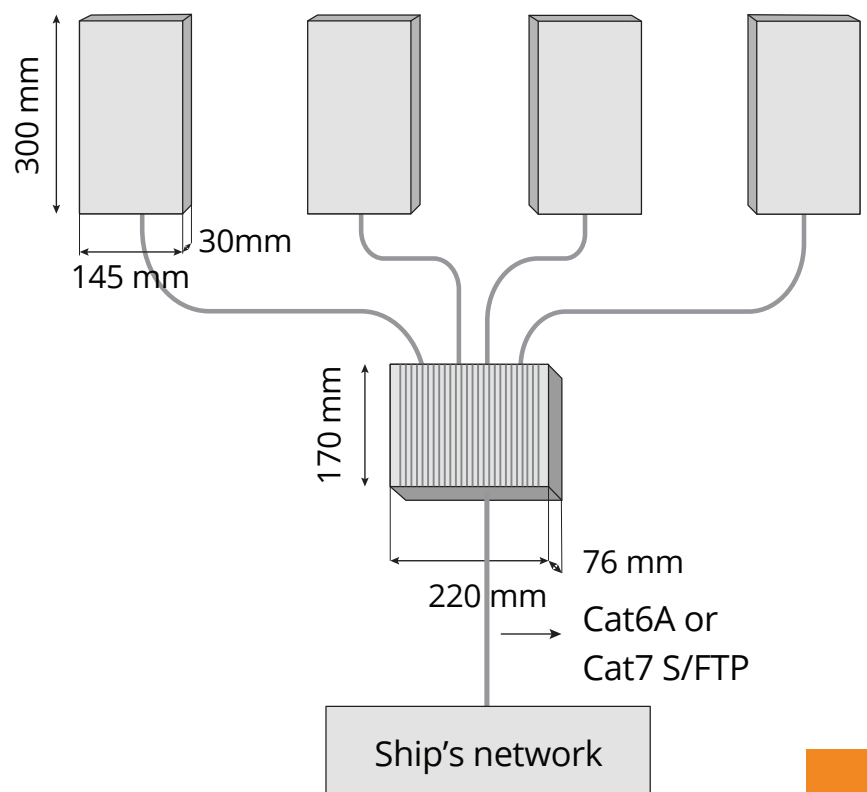| Technology	Bands	Diversity Connection
3G	B1, B2, B4, B5, B6, B8, B9, B19	YES
4G LTE-A-PRO	B1-B5, B7, B8, B12-B14, B17-B20, B25, B26, B28-B30, B32, B34, B38-B43, B46, B48, B66, B71	YES (4x4 MIMO)
5G	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79	YES (4x4 MIMO)

DOME SYSTEM - X4 PV

System contains 4 panels with a control router. It is meant for installations inside existing and operational VSAT or TVRO domes.

For installation of our Panel Version there should be at least 10cm clearance between the dish and the dome cover, to keep the dish fully operational.

- 4 panels (four 5G modems and 16 omnidirectional antennas in total, see "Panel" spec page X for more info)
- Dual-LEO (e.g. Starlink Maritime) connectivity
- **Panel Mounting:** panels can be mounted either vertically or horizontally (but not flat) near the dome's base. Thus, they will not interfere with the satellite dish system.
- **Mounting brackets:** will be provided to fit the diameter of the dome (spec on page X)
- **Control Router:** mounted flat in the dome's base.
- **Power:** 160W peak load. DC 12V, 12A (3x4sqmm) or AC 100V..240V (3x1.5sqmm).
- **Operating temperature:** -40° to +75°C
- **Cabling required:** Ethernet to the ship's firewall: Cat6A or Cat7 S/FTP (shielded).

Remarks: 360° non-blocked horizontal line of sight recommended
The systems comes with all parts/cables required, except the ethernet cable connecting the dome to the ship's network.

Optional SIM extender is available so SIM cards can be conveniently changed below deck. It does not require any extra cables (uses the same ethernet cable as for the user data).

300 mm
30mm
145 mm
170 mm
76 mm
220 mm
Cat6A or Cat7 S/FTP
Ship's network

DOME SYSTEM - X4 PV

System contains 2 panels with a control router. It is meant for installations inside existing and operational VSAT or TVRO domes.

For installation of our Panel Version there should be at least 10cm clearance between the dish and the dome cover, to keep the dish fully operational.

- 2 panels (two 5G modems and 8 omnidirectional antennas in total, see "Panel" spec page X for more info)
- Dual-LEO (e.g. Starlink Maritime) connectivity
- **Panel Mounting:** panels can be mounted either vertically or horizontally (but not flat) near the dome's base. Thus, they will not interfere with the satellite dish system.
- **Mounting brackets:** will be provided to fit the diameter of the dome (spec on page X)
- **Control Router:** mounted flat in the dome's base.
- **Power:** 160W peak load. DC 12V, 12A (3x4sqmm) or AC 100V..240V (3x1.5sqmm).
- **Operating temperature:** -40° to +75°C
- **Cabling required:** Ethernet to the ship's firewall: Cat6A or Cat7 S/FTP (shielded).

Remarks: 360° non-blocked horizontal line of sight recommended

The systems comes with all parts/cables required, except the ethernet cable connecting the dome to the ship's network.

X2 model of the panel version can be upgraded at a later time by purchasing additional panel(s) (up to 2 more). Such upgrade is very easily done. Optional SIM extender is available so SIM cards can be conveniently changed below deck. It does not require any extra cables (uses the same ethernet cable as for the user data).

300 mm
30mm
145 mm
170 mm
76 mm
220 mm
Cat6A or Cat7 S/FTP
Ship's network