Intellian

C700 INTRODUCTION

IRIDIUM CERTUS SERVICE CLASSES

- ✦ C700 supports Certus 350 in the upload direction.

- ✦ Certus 700 in download.

Fastest L-band speeds!

Iridium® Services for Maritime

2.4 Kbps
NARROWBAND
Iridium Narrowband
- Telemetry
- Asset Tracking
- SSAS
- LRIT
- Vessel Monitoring System (VMS)
- Global Maritime Distress & Safety System (GMDSS)*

22 Kbps
MIDBAND
Iridium Certus® 20
- IoT Connected Ship
- Regulatory Compliance: SSAS, Man-Over-Board (MOB)
- Vessel Monitoring System (VMS)
- Autonomous Systems
- Cargo Tracking
- GMDSS*

88 Kbps
MIDBAND
Iridium Certus® 100
- Email, Messaging, and Web Browsing
- Multiple High-Quality Voice Lines
- Electronic Chart Display and Information System (ECDIS) Updates
- IoT Connected Ship
- Regulatory Compliance: SSAS, LRIT, Citadel, VMS, e-Log
- Autonomous Water Craft
- GMDSS*

176 Kbps
BROADBAND
Iridium Certus® 200
- Email, Messaging, and Web Browsing
- Multiple High-Quality Voice Lines
- ECDIS Updates
- Remote Diagnostics, Engine, and Fuel Monitoring
- Autonomous Water Craft
- Regulatory Compliance: SSAS, LRIT, Citadel, VMS, e-Log
- Hybrid Cellular / VSAT System
- Smartphone Access
- GMDSS*

352 Kbps
BROADBAND
Iridium Certus® 350
- Email, Messaging, and Web Browsing
- Multiple High-Quality Voice Lines
- GMDSS*

704 Kbps
BROADBAND
Iridium Certus® 700
- Email, Messaging, and Web Browsing
- Multiple High-Quality Voice Lines
- Database Sync
- File Transfer
- Weather Data
- Hybrid Cellular / VSAT System
- Remote Diagnostics
- Engine Monitoring
- Fuel Monitoring
- Oceanographic Data
- Buoy Data
- Messaging Apps
- Smartphone Access
- Regulatory Compliance: SSAS, LRIT, Citadel, VMS, e-Log
- Prepaid Enablement
- Cargo Tracking
- Autonomous Water Craft
- GMDSS*

The Iridium network is capable of supporting speeds up to 1408 Kbps. Future development of Iridium Certus 1400 service is dependent on market demand.
*GMDSS recognition by IMO received in May 2018. Narrowband GMDSS service is expected to begin in 2020, followed later by Iridium Certus GMDSS services.
09/2020
© Copyright 2020 Iridium Satellite LLC. Iridium, the Iridium logo, and Iridium Certus are trademarks of Iridium Satellite LLC and its affiliates. All other registered marks, trademarks, service marks and logos are property of their respective holders. Information is subject to change without notice.

iridium®

WHAT'S IN THE BOX?

STAND-ALONE VERSION:

- ✦ Above Deck Unit (ADU)

- ✦ 25 meter Antenna Cable (TNC/TNC)

- ✦ Drilling Template

- ✦ Below Deck Unit (BDU)

- ✦ 1 meter DC Power Cable

- ✦ Quick Installation Guide

- ✦ Weight: 20 kg / 44 lbs (Rack mount version)

- ✦ Size: 52 x 52 x 51 cm / 20.5 x 20.5 x 20 inch

Intellian

WHAT'S IN THE BOX?

RACK MOUNT VERSION:

- ✦ Above Deck Unit (ADU)

- ✦ 25 meter Antenna Cable (TNC/TNC)

- ✦ Drilling Template

- ✦ Below Deck Unit (BDU)

- ✦ 1 meter DC Power Cable

- ✦ Quick Installation Guide

- ✦ AC/DC Power Adapter (incl. EU and US Power Cable)

- ✦ 19" Rack Mount Panel and Cable Support Bracket

52 x 52 x 51 cm

20.5 x 20.5 x 20 inch

Intellian
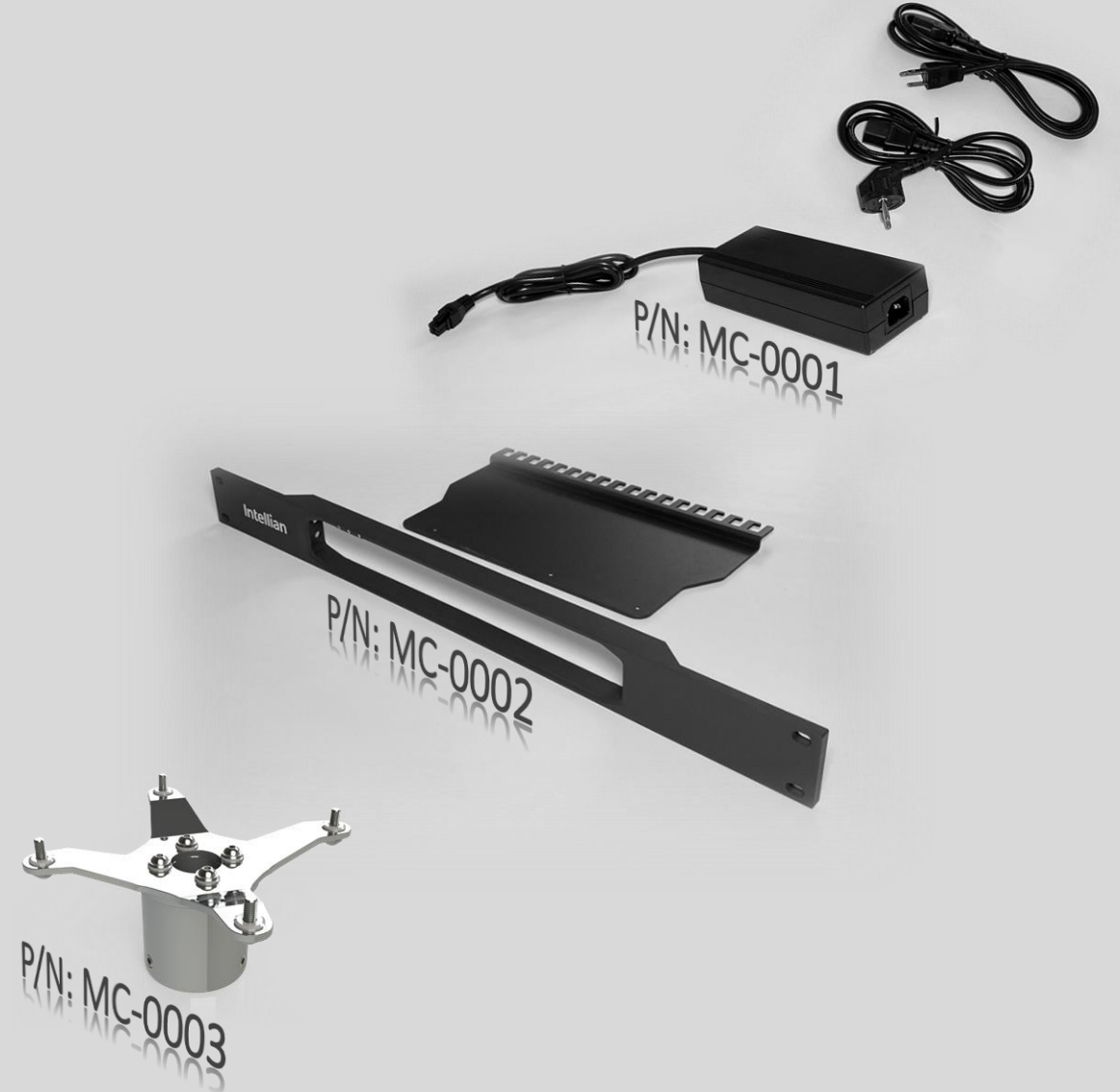
BELOW DECK UNIT (BDU) TYPES

✦ Available in two versions

- Stand-alone (bulkhead) version:

  - Typically as the primary connection

  - Size: 280 x 183.5 x 41 mm / 11" x 7.2" x 1.45 in

  - Weight: 2 kg / 4.4 lb

- 19" Rack (all-in-one) version:

  - For instance as a VSAT back-up

  - 1U
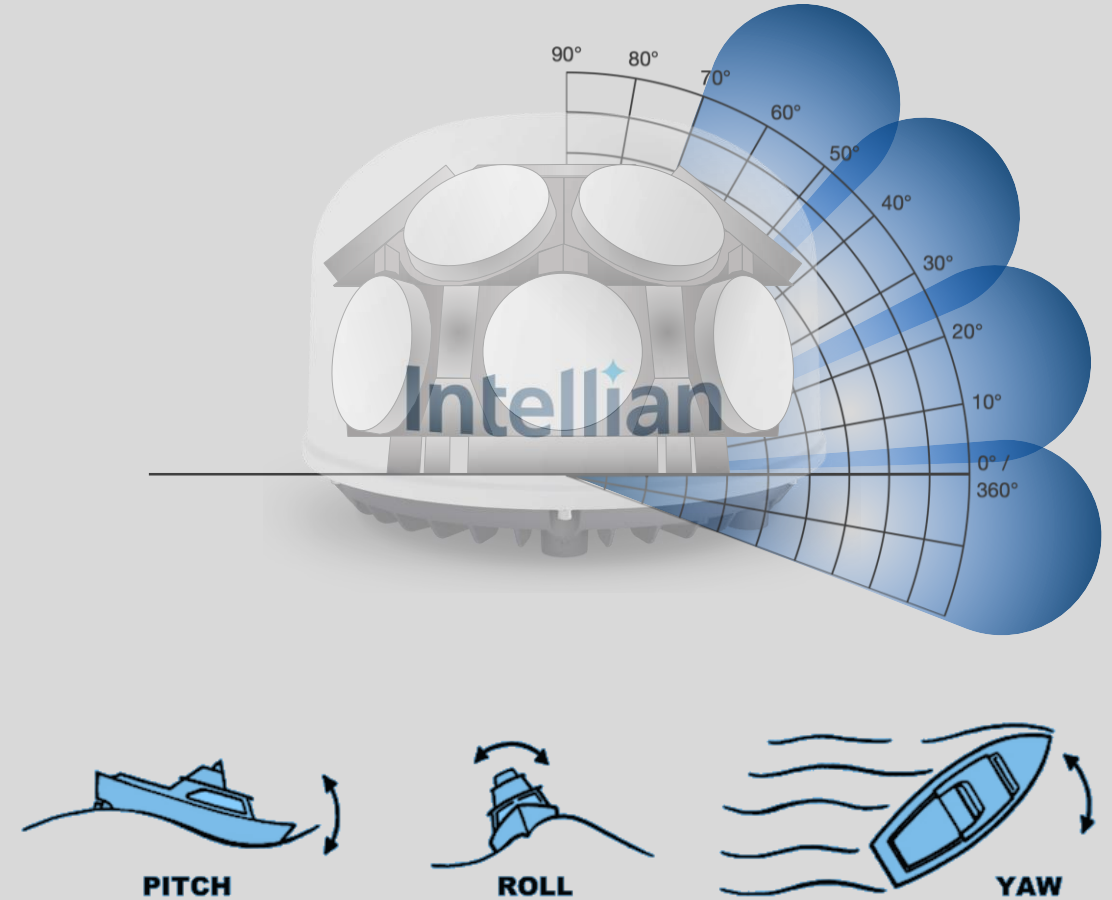
  - AC/DC Power Adapter included

P/N: C1-70-A00S

P/N: C1-70-A00R

Intellian

OPTIONAL ITEMS

✦ AC/DC Power Adapter with US and EU Power Cables

✦ 19" Rack Mount bracket with Cable Support

✦ Antenna Pole Mount Kit

P/N: MC-0001

P/N: MC-0002

P/N: MC-0003

Intellian
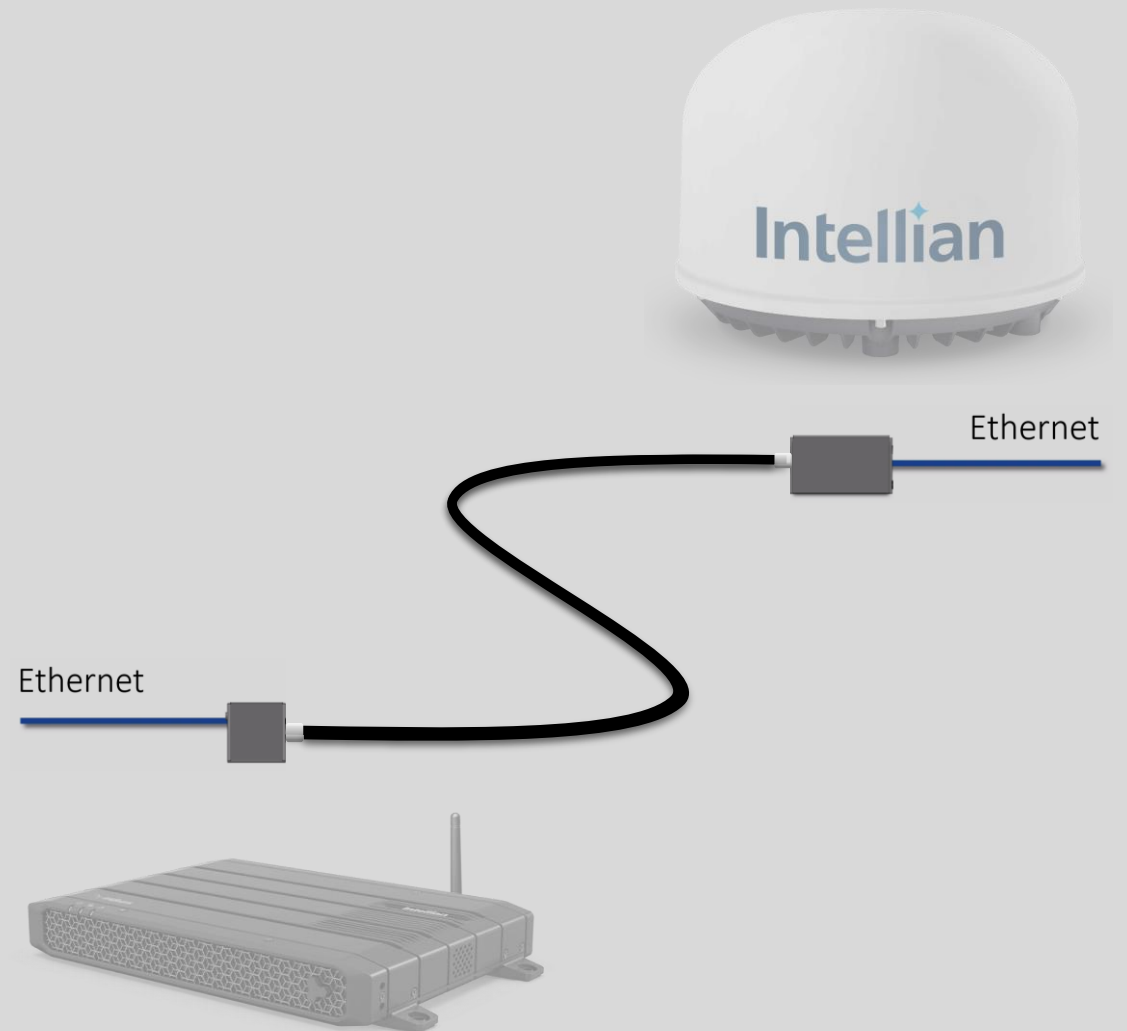
BEST-IN-CLASS PERFORMANCE

✦ Resilient and reliable technology.

✦ Solid-state antenna, no moving parts.

✦ 12 patch configuration for optimal satellite tracking and signal reception in any weather or sea condition.

✦ Excellent low elevation angle performance handling heavy ship motion.

✦ Optimal satellite and beam handover ensuring seamless voice and data connectivity.

PITCH   ROLL   YAW

INTELLIAN C700

ETHERNET-OVER-COAX

✦ Integrated Iridium BCX core module in antenna.

✦ Longer cable runs and lower cost at new installations.

✦ 50 Ohm coax cable RF specifications:

   • Max. DC resistance: 1.3 Ohm

   • Max. RF loss @ 900 MHz: 13.5 dB (incl. plugs)

✦ Reuse existing coax cable onboard for retrofits, saving
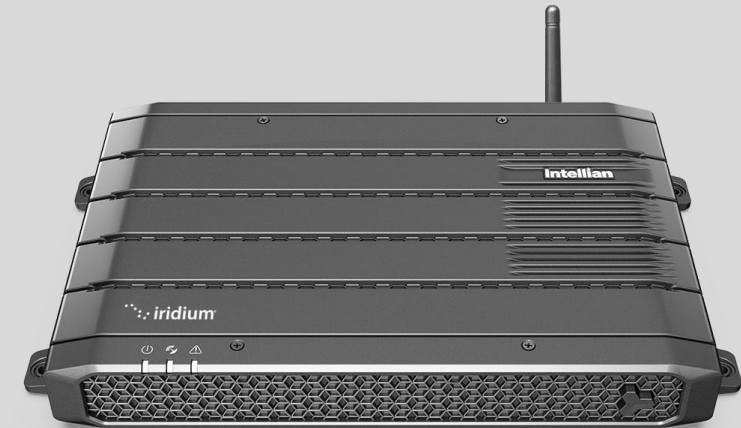   time and installation cost.

✦ No cable calibration required.

Ethernet

Ethernet

Intellian

ALL-IN-ONE SOLUTION

- ✦ Analog Terminal Adapter (ATA)

- ✦ PABX

- ✦ Router

- ✦ Power over Ethernet (PoE)

- ✦ WAN

- ✦ Wi-Fi

- ✦ Firewall

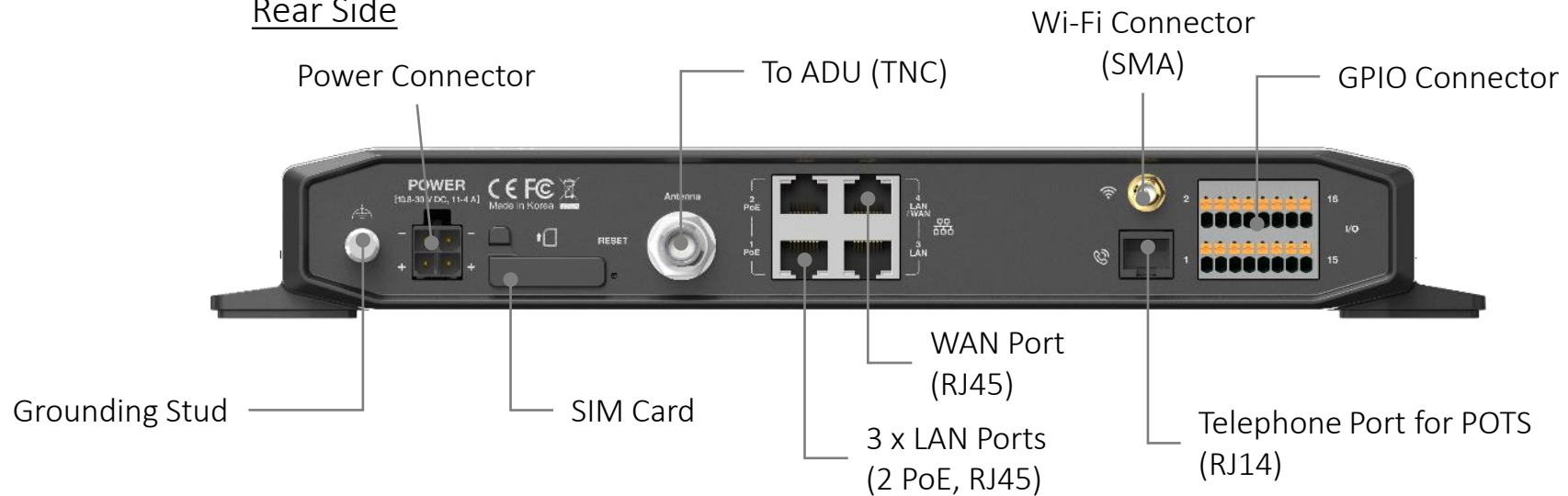- ✦ No hidden cost in additional equipment, installation and configuration, less points of failure

Intellian

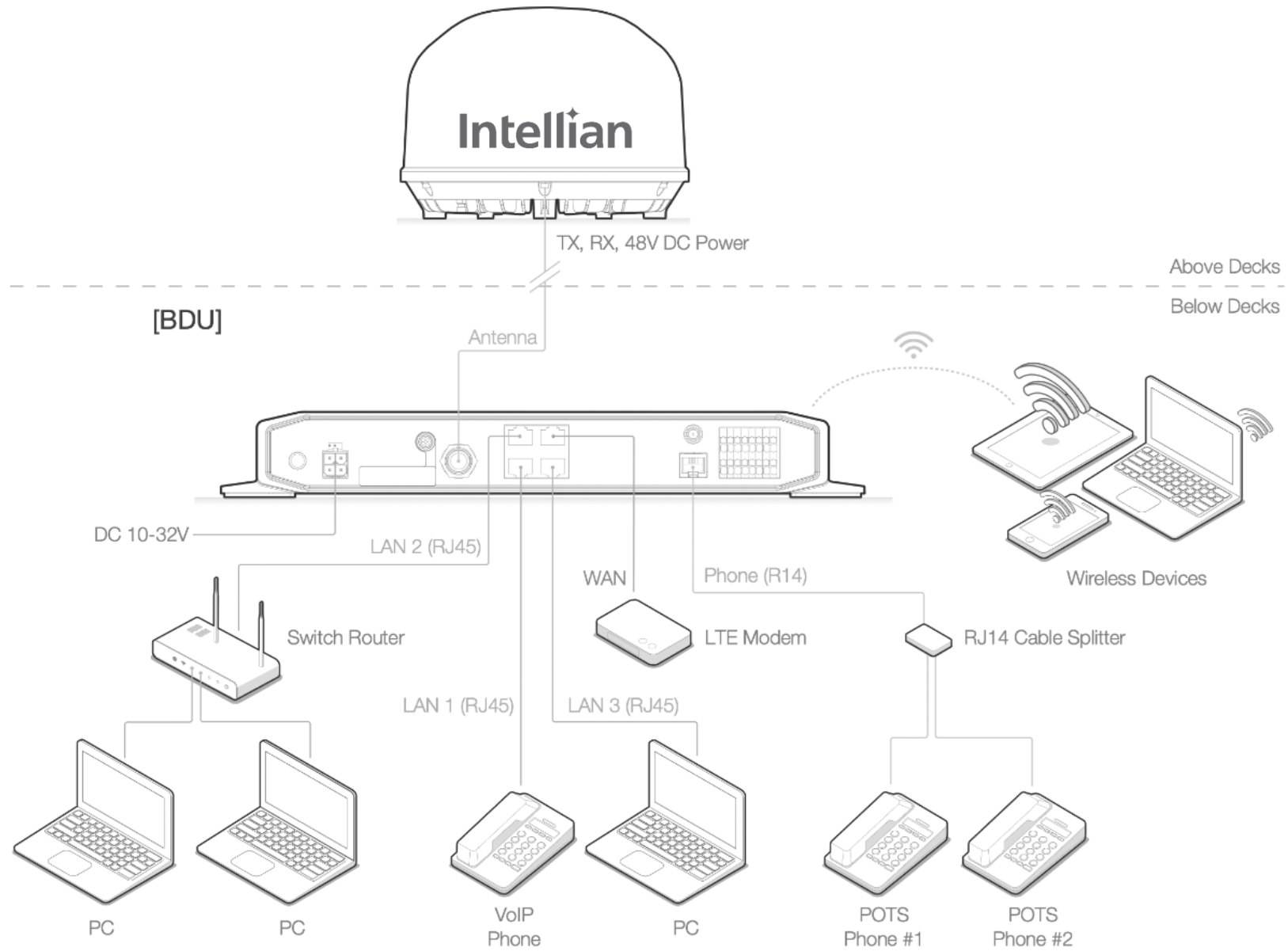# BELOW DECK UNIT

Front Side

LED Indicators

Power Switch

Rear Side

Wi-Fi Connector
(SMA)

Power Connector

To ADU (TNC)

GPIO Connector

Grounding Stud

SIM Card

WAN Port
(RJ45)

3 x LAN Ports
(2 PoE, RJ45)

Telephone Port for POTS
(RJ14)

INTERFACES

Intellian

TX, RX, 48V DC Power

Above Decks

Below Decks

[BDU]

Antenna

DC 10-32V

LAN 2 (RJ45)

WAN

Phone (R14)

Wireless Devices

Switch Router

LTE Modem

RJ14 Cable Splitter

LAN 1 (RJ45)

LAN 3 (RJ45)

PC

PC

VoIP
Phone

PC

POTS
Phone #1

POTS
Phone #2

Intellian

USER FRIENDLY

- ✦ AptusLX – intuitive and easy to use.

- ✦ Embedded in terminal

- ✦ Accessible via LAN and Wi-Fi from a Smartphone, tablet or PC.

- ✦ Login locally onboard and from remote over-the-air.

- ✦ Go to https://portal.certus.local/

Intellian

THE PERFECT VSAT COMPANION

- ✦ True Global Coverage – Pole to Pole

- ✦ Fastest L-band back-up for VSAT – both in uplink and downlink.

- ✦ Up to 352 kbps in upload and 704 kbps download.

- ✦ Up to 256 kbps QoS Streaming.

- ✦ Supports multiple users.

- ✦ Low-latency (LEO constellation).

- ✦ Future-proof data speeds.

Intellian