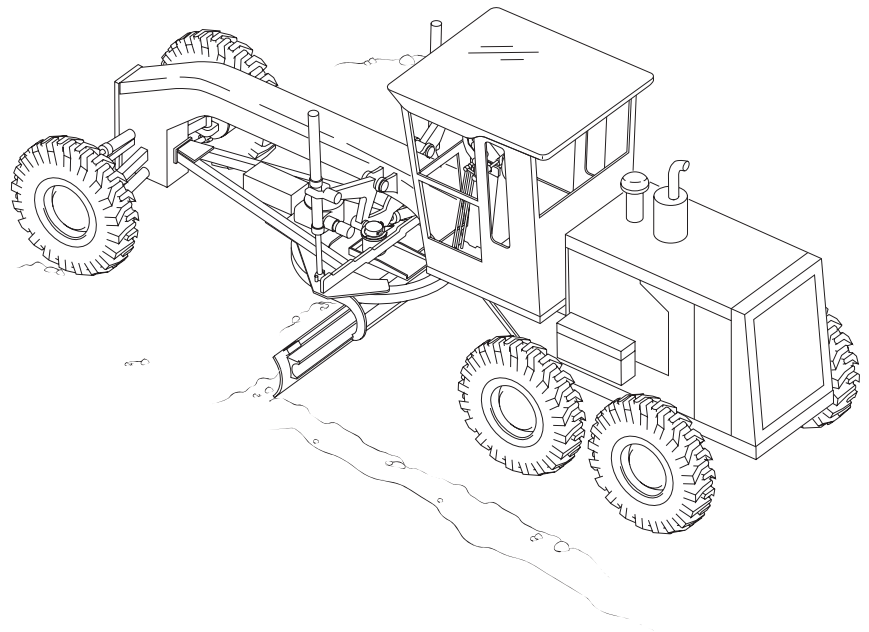
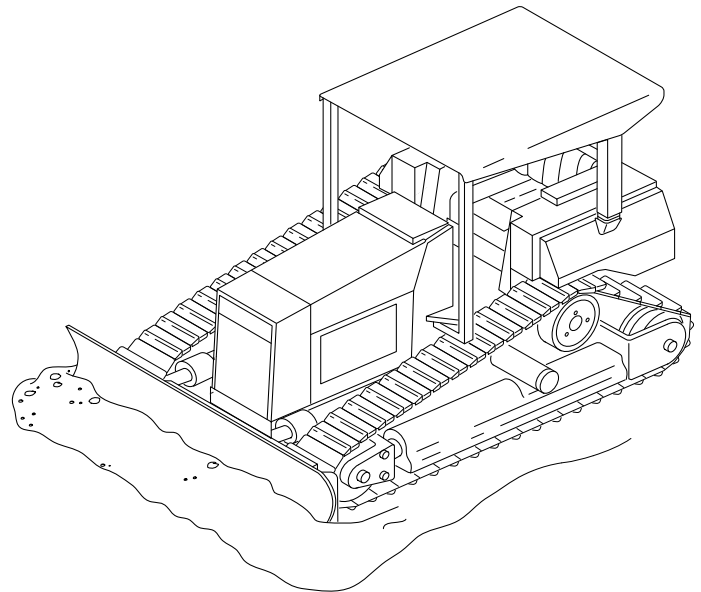


## Description

The GX-75 graphical computer display is designed for rugged machine environments. Light and compact with a full-color LCD touch sensitive screen and integrated grade indicator LEDs, Topcon's GX-75 is a fully functioning Windows® computer that provides the operator with real-time grade information and control. The GX-75 is constructed of a strong cast housing and sealed internals, and features USB, Ethernet, CAN and RS-232 ports.

## Features

- Large 10.4 inch diag. sunlight viewable color LCD with touch screen
- Integrated grade indicator LEDs
- Flash download capability (application code revisions in the field)
- Easy-access USB port for saving and downloading job files



# Specifications

## Electrical

<b>Supply Voltage</b>	9-32 VDC
<b>Supply Current</b>	2A typical operating current; max. at 10 VDC input power, no peripheral equipment; 7A max. operating current
<b>Switched Output Power</b>	5A sensor/conditioned output power
<b>Ports</b>	USB (3), RS-232, CAN (2), Digital inputs (2), and Ethernet
<b>Emissions</b>	Applicable regulation: EN 13309:2010; ISO 13766:2006
<b>Immunity</b>	Applicable regulation: EN 13309:2010; ISO 13766:2006 ESD: ±8KV BCI Method: 20 to 200 MHz; 60mA Radiated Immunity: 200 MHz to 2000 MHz; 30V/m Electrical Transients: ISO 7637-2:2004; Pulse 1, 2a, 2b, 3a, 3b, 4, and 5B

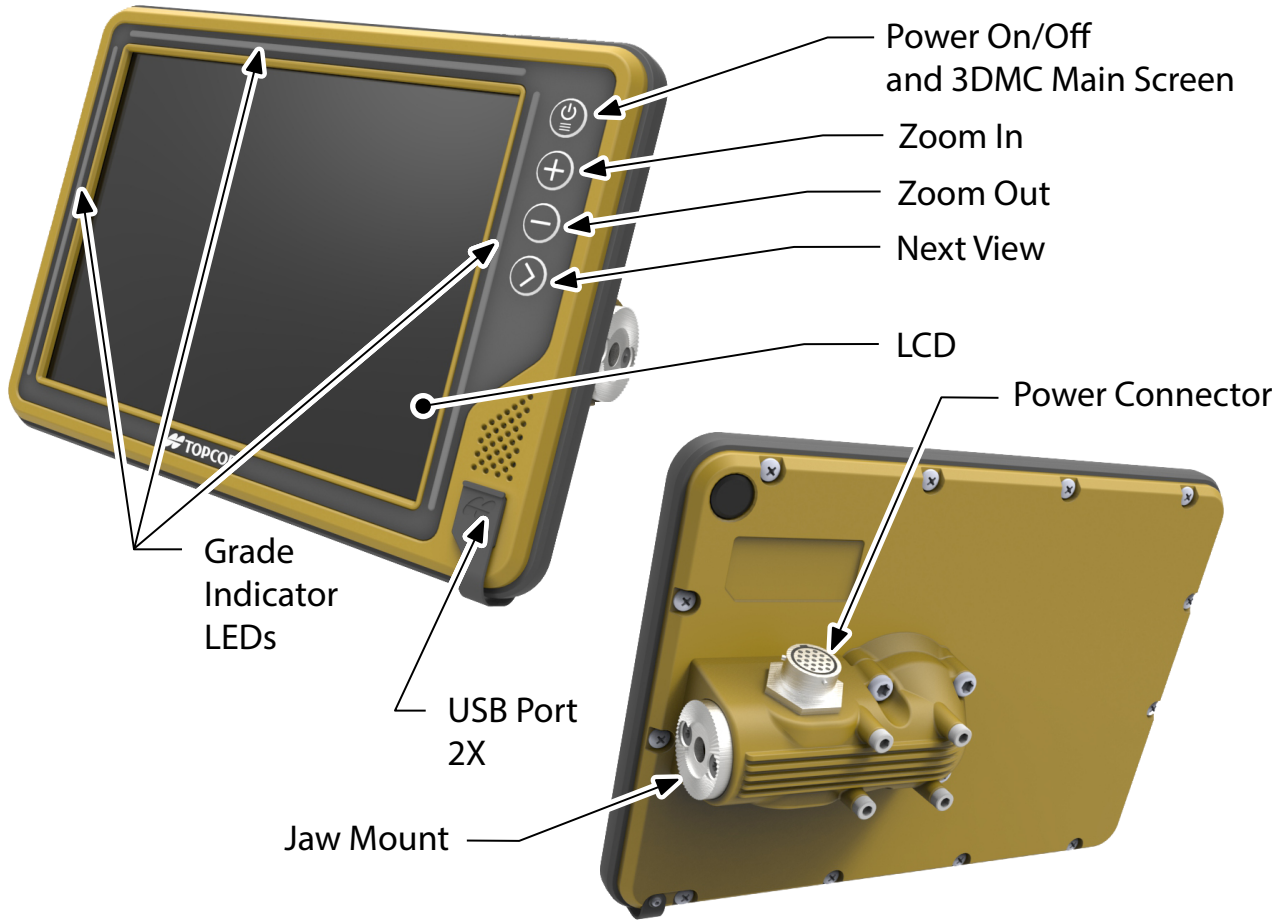
## Physical

<b>Display</b>	10.4 inch LCD display — 800 x 600 resolution, integrated LED controller. and optically bonded 4-wire touchscreen
<b>Housing</b>	Cast aluminum (see envelope dimensions)
<b>Audio</b>	1 ea environmentally sealed speaker w/ 1.5 watt amp
<b>Switches</b>	4 ea momentary push button (power, navigation)
<b>Connectors</b>	26 pin AMP connector without backpack 1 ea 19 socket MIL-C-5015 cylindrical connector, gold plated contacts, conductive anticorrosive plated housing, with backpack
<b>Weight</b>	6 lbs (2.7 kg) with backpack; 5 lbs 2 oz (2.35 kg) without backpack

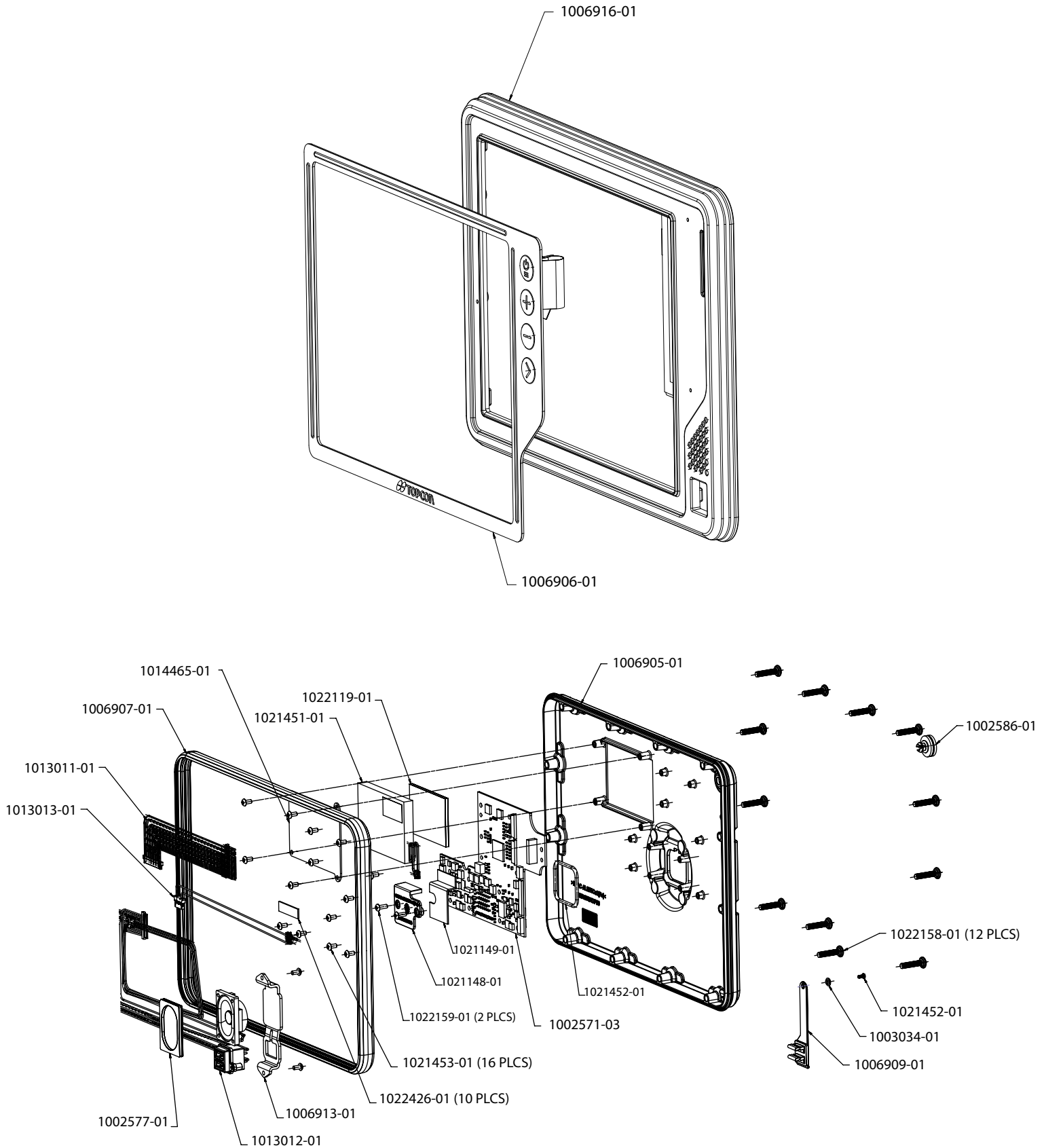
## Environmental

<b>Operating Temperature</b>	-20°C (-4°F) to +70°C (158°F)
<b>Storage Temperature</b>	-40°C (-40°F) to +85°C (185°F)
<b>Moisture Test</b>	240 hours at 96% RH
<b>Shock Test</b>	25G 11 ms ½ sine wave each axis
<b>Vibration Test</b>	10-200Hz random 7.7 Grms
<b>Salt Fog Test</b>	48 hours (ASTM B117-97)

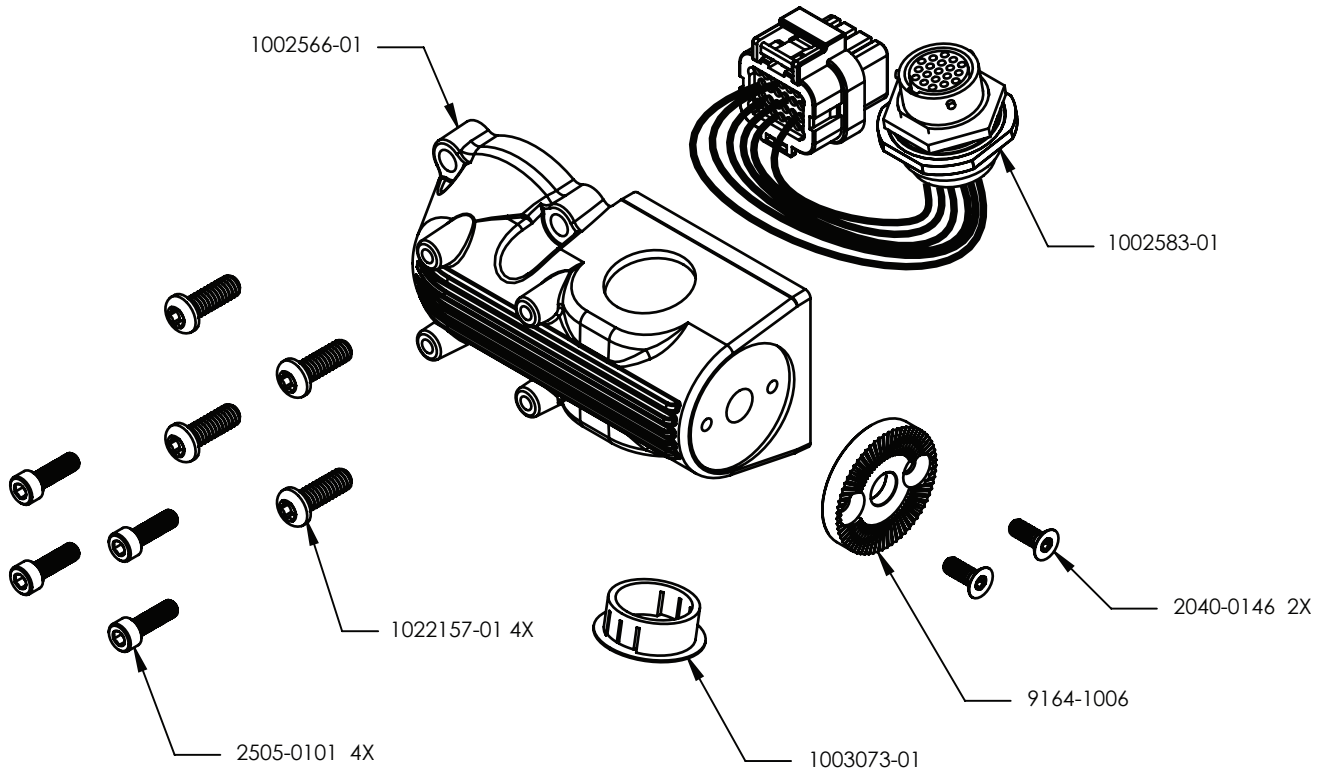
## Features



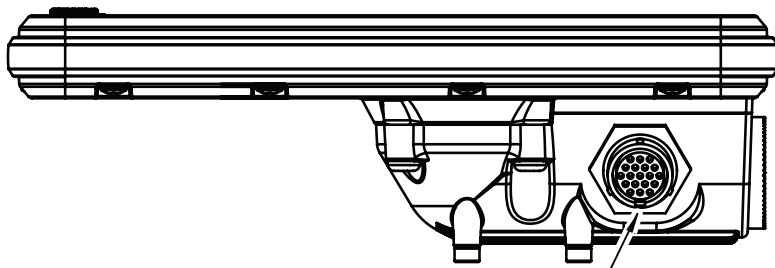
# Service Parts – Display Assembly



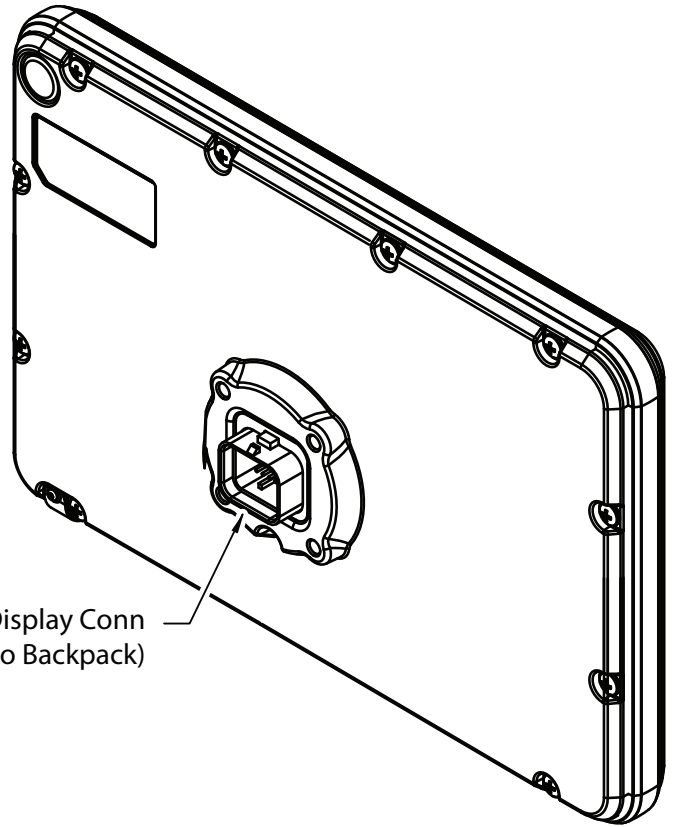
## Service Parts — Backpack Assembly



## Connector Pinouts



Backpack Conn


 Display Conn  
(Connects to Backpack)

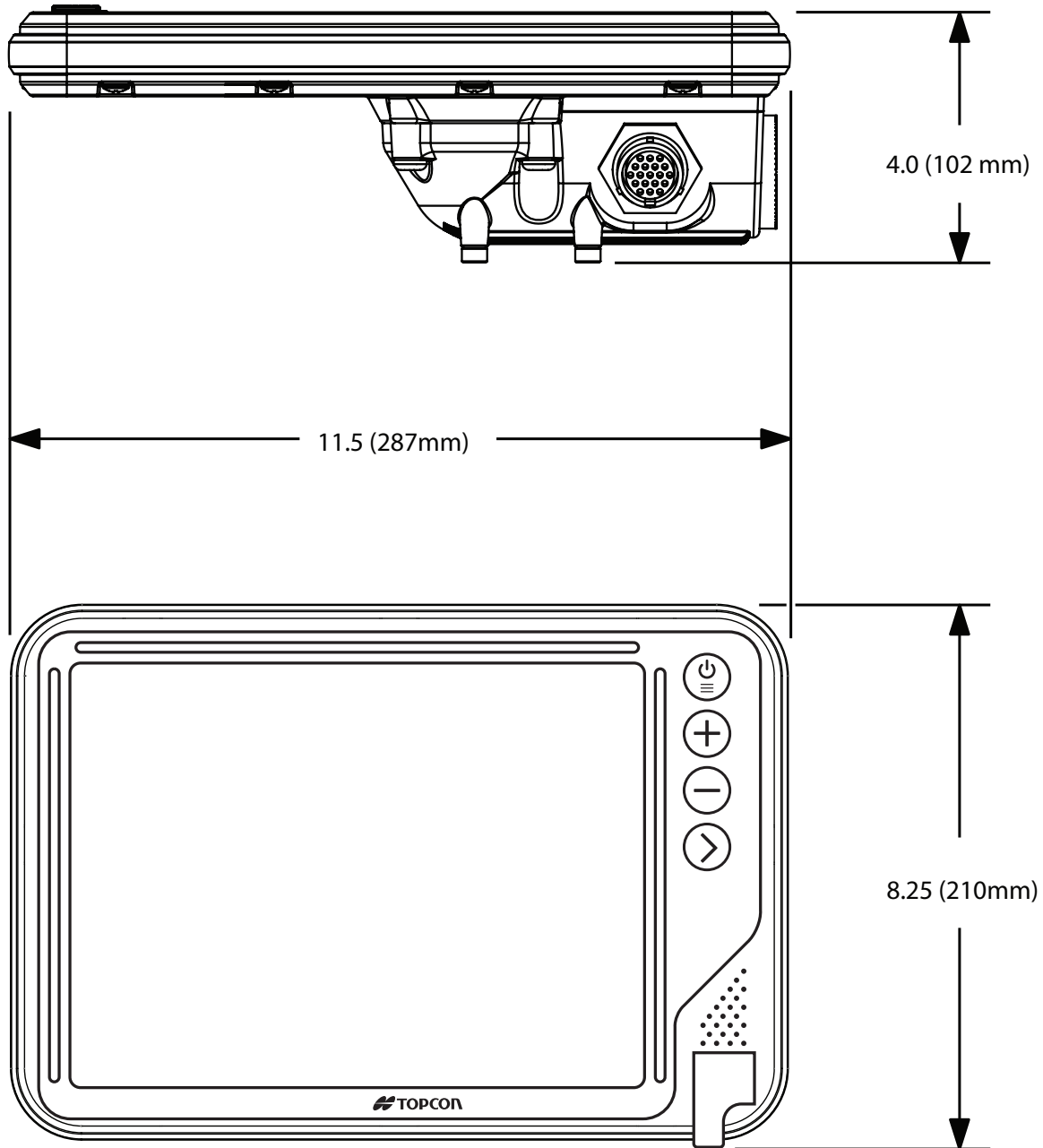
**Backpack Conn  
19 Socket Bayo  
DTM06-12SA**

A	CAN A+
B	CAN A-
C	PWR IN
D	GND IN
E	V-SUPPLY
F	GND (CAN A)
G	N/A
H	GND (CAN A)
J	ENET RX+
K	ENET RX-
L	ENET TX+
M	ENET TX-
N	RX SERIAL
P	CAN B+
R	TX SERIAL
S	CAN B-
T	N/A
U	N/A
V	V-SUPPLY (CAN A)

**Display Conn  
26 Socket  
1473416-1**

1	BATTERY IN	14	USB+
2	IGNITION IN	15	ETHERNET RX-
3	GND	16	GND
4	GND	17	GND
5	CAN A PWR	18	SERIAL TX
6	CAN B PWR	19	SERIAL RX
7	PWR OUT	20	ETHERNET TX-
8	USB-	21	ETHERNET TX+
9	ETHERNET RX+	22	GND
10	GND	23	CAN A LO
11	GND	24	CAN A HI
12	N/A	25	CAN B LO
13	USB PWR	26	CAN B HI

## Envelope Dimensions



For more information contact Synergy Positioning Systems or visit the Synergy Positioning Systems website at [www.synergypositioning.co.nz](http://www.synergypositioning.co.nz)  
 All branches: Phone 0800 867 266 Email: [info@synergypositioning.co.nz](mailto:info@synergypositioning.co.nz)