

## EvacU<sup>Elite</sup> Distribution CPU + Network Interface Card

### 1. Description

The DCPU Card (DCPU) and the Network Interface Card (NIC) come assembled as a fixed pair as shown below. When the Network Card is fitted it will always consume Rack 1 Slot 1. (Rack 1 is closest to the PSU)

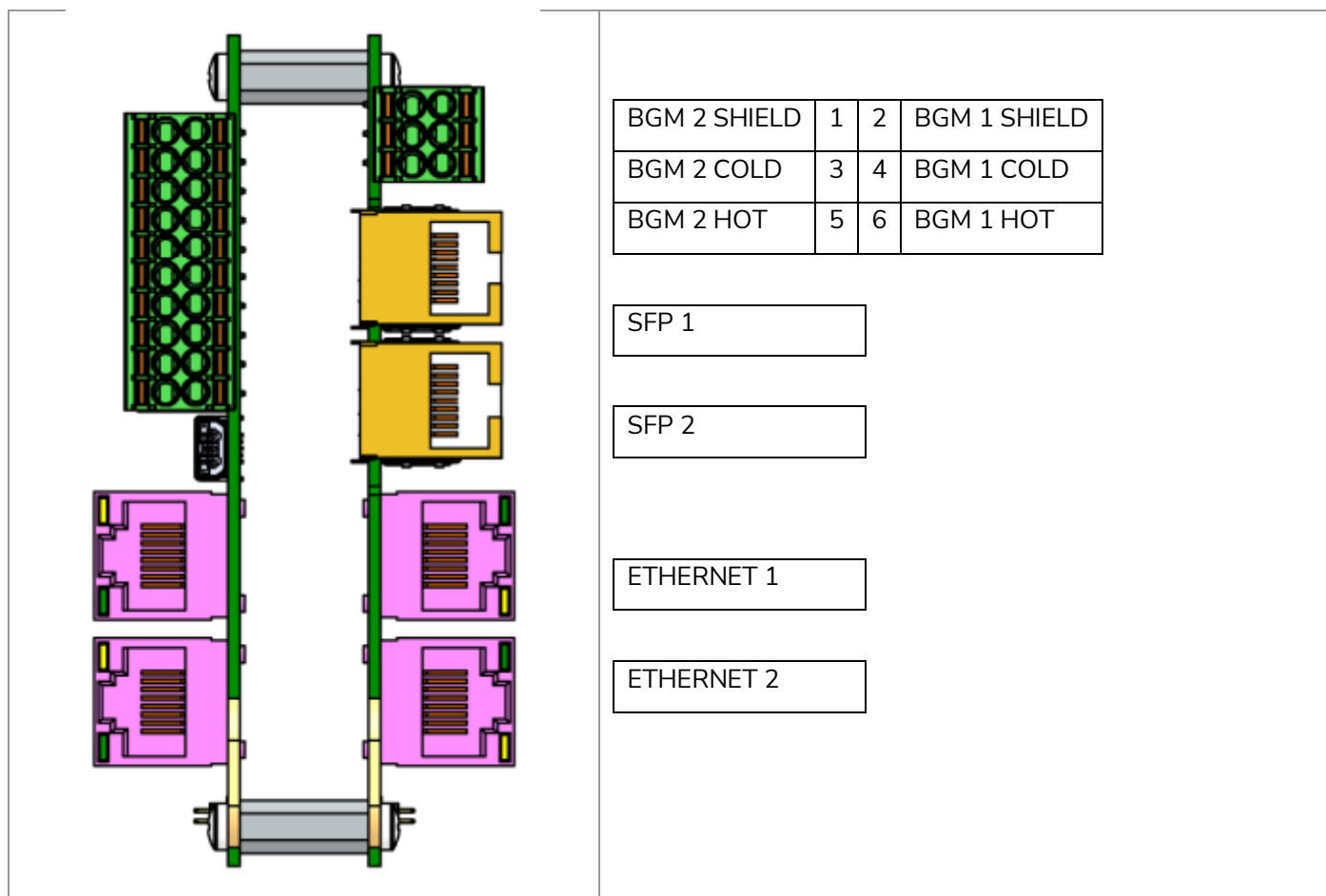
The two SFP connections on the NIC (IN OUT) allow various types of Ampac SFP Modules to be fitted into connections SFP 1 & 2. Different types of SFP Modules are available which allow network distances between buildings to be accommodated using specific cable options; FDSL Copper <750m and multiple Fibre Optic SFP options.

Ethernet 1 & 2 accommodate Cat5/6. They can be used between 'side by side' networked panels (2 nodes).

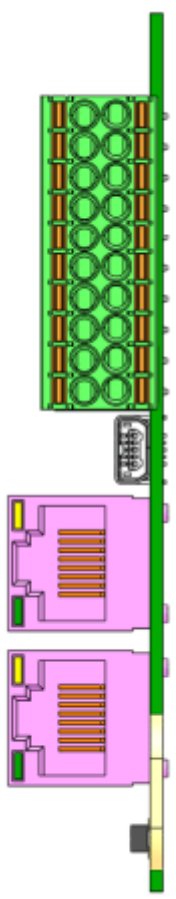
### 2. Connections

The drawings provided outline the various features and connections available on both boards

DCPU and NIC Illustrated Below:



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Front elevation detailing the DCPU card connection options

BGM 1 HOT	1	2	BGM 2 HOT
BGM 1 COLD	3	4	BGM 2 COLD
BGM 1 SHIELD	5	6	BGM 2 SHIELD
INPUT 1	7	8	INPUT 1 (REF)
INPUT 2	9	10	INPUT 2 (REF)
RELAY 1-1 (NO)	11	12	RELAY 1-2 (NC)
RELAY 1-1 (COM)	13	14	RELAY 1-2 (COM)
RELAY 2 (NO)	15	16	RELAY 3 (NC)
RELAY 2 (COM)	17	18	RELAY 3 (COM)
RELAY 2 (NC)	19	20	RELAY 3 (NC)

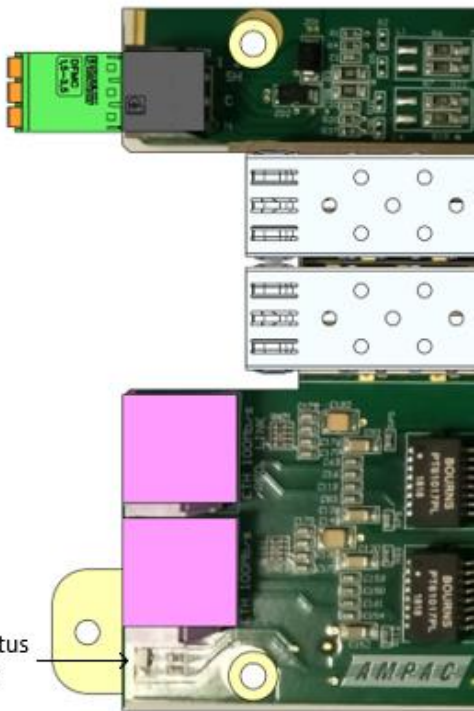
Mini USB Connector (Used for loading in system configuration & application)


RJ45 1 provides the network connection to the GUI

RJ45-2 Redundant connection to the GUI

<b>Audio 1 &amp; 2</b>	Analog line level audio input (hot, cold and shield), 10kΩ impedance, max input +4dBu
<b>Input 1 &amp; 2</b>	Supervised input, selectable EOL, common reference.
<b>Relay 1</b>	Double pole, single throw (1 x NO, 1 x NC, 2 x COM)
<b>Relay 2 &amp; 3</b>	Single pole, double throw (COM, NO, NC)
<b>Mini USB</b>	<i>Not available for field connection</i>
<b>RJ45 1</b>	<i>Not available for field connection</i>
<b>RJ45-2</b>	<i>Not available for field connection</i>

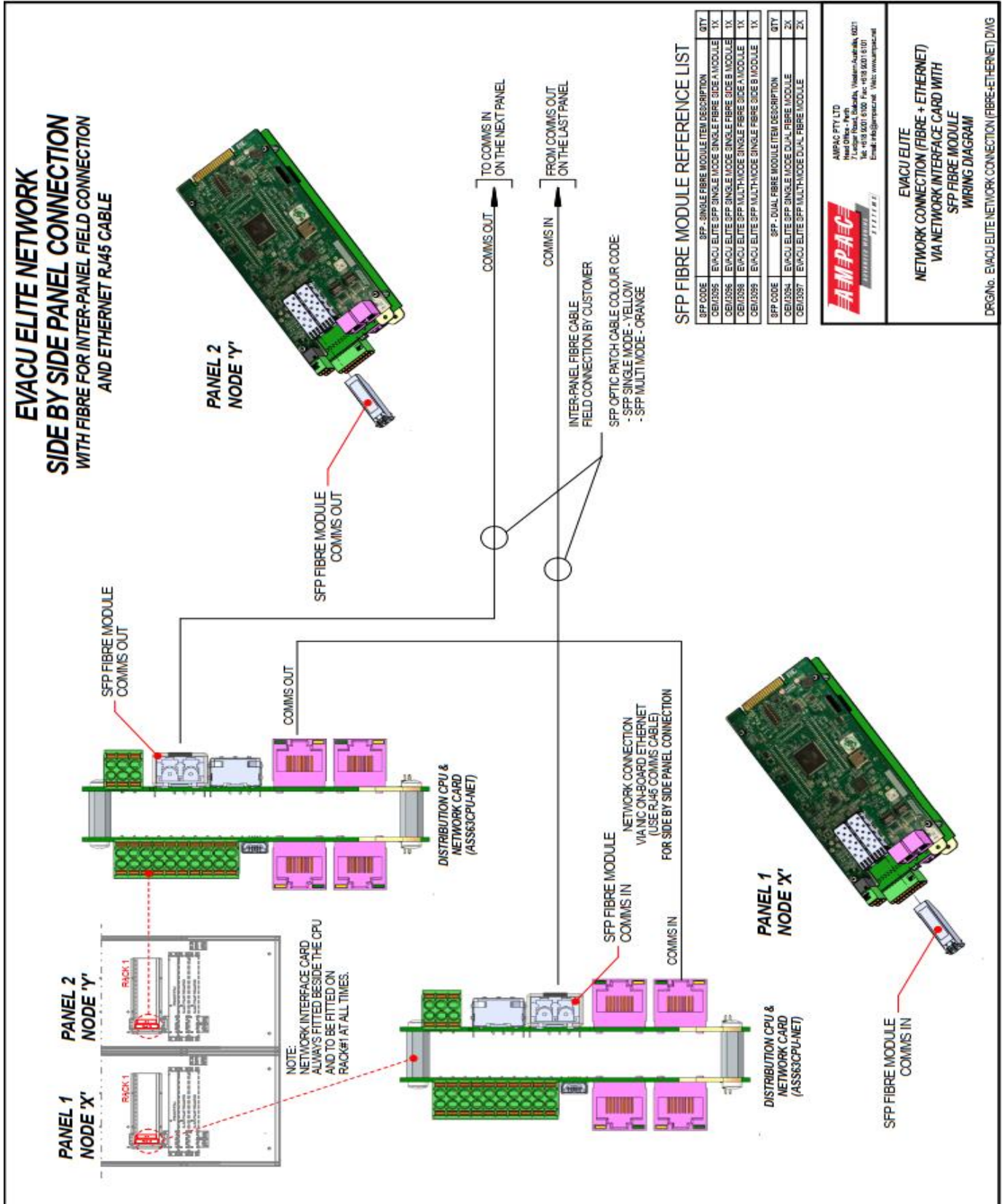
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 <p>General Status Indicator</p>	<p><b>NIC Card General Status Indicator</b></p> <p>OFF: cards have no power or processor is fault</p> <p>FLASHING GREEN: board is operating, no faults</p> <p>FLASHING AMBER: board has a fault condition</p> <p>STEADY AMBER: Not receiving commands from the Distribution CPU</p> <p>This drawing is a <b>side elevation of the NIC - Network interface Card</b></p> <ul style="list-style-type: none"> <li>• BGM terminations at the top</li> <li>• SPF module slots Female x 2 in the middle</li> <li>• Ethernet connections at the bottom</li> </ul>
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 <p>NODE ADDRESS</p>	<p><b>NIC Card Node Address</b></p> <p>The DIP switch shown is used to set the node address.</p> <p>The LSB of the address is the left switch (markings on the overlay of the PCB)</p>
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Network Drawing and Module Reference List Illustrates Fibre Optic SFP Options:

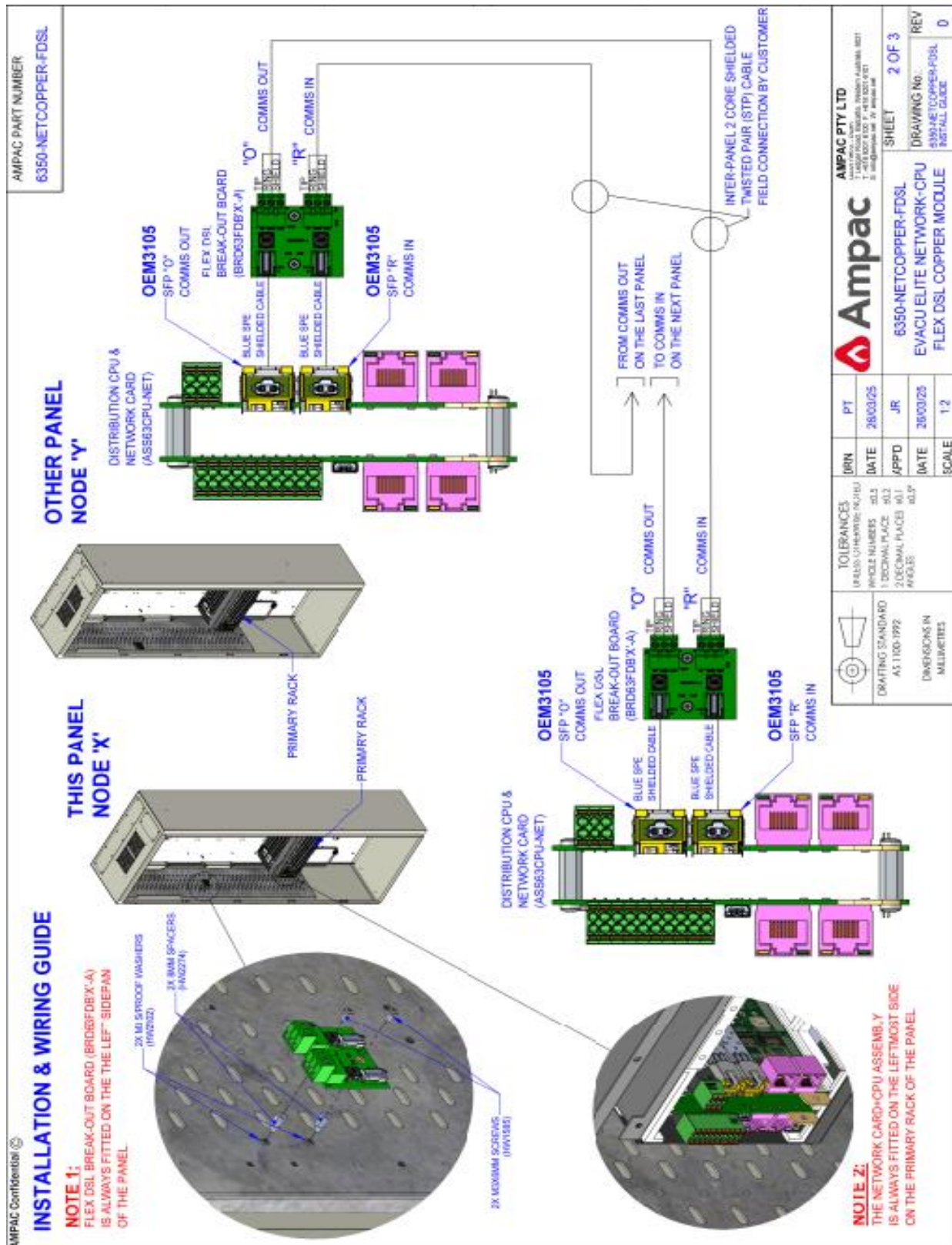




## EvacU<sup>Elite</sup> Distribution CPU + Network Interface Card

### Illustrates Copper Cable SFP Option:

Maximum distance between two networked panels using copper and **Flex DSL** SFPs is <750m



## **EvacU<sup>Elite</sup> Distribution CPU + Network Interface Card**

A range of network connection options are illustrated in EvacU Elite Installation, Commissioning and User Manual MAN3137.

### **3. Installation**

- a. Turn power OFF to the Universal Rack. Use the **EWCIIE Power Switch** on the Primary PSU.
- b. Set the node address number dipswitch on the NIC.
- c. Observing anti-static precautions install the DCPU+NIC within the panel into Rack 1 slot 0 and 1.
- d. The NIC and any DCPU configuration will need to be configured in the system to provide functionality\*.
- e. Fit the appropriate internal cables E.g., DCPU RJ45 1 to GUI Cat 5.
- f. Ensure the correct SFP Module types are fitted and connected between the nodes and match the network loop cabling types installed.
- g. Fit all the cards into the universal rack slots correctly as per the configuration slot positions.
- h. Fit the rack cover plates which prevent dislodgement of all cards in the rack.
- i. Turn power ON to the Universal Rack. Use the **EWCIIE Power Switch** on the Primary PSU.

For Item D Please refer to the **Programming Manual** MAN3142