



USB-A CHARGER 1281

Delivering power and data to the passenger

IFPL has designed the 1281 with customer experience and reliability at its core. The 1281 provides power, ensuring passengers can interface with an In-Flight Entertainment (IFE) system.

Research confirms that the use of both portable and wearable devices are now and will become further widespread over the coming years. Airline passengers are already demanding the ability to charge portable and wearable devices on-board aircraft. The 1281 USB was developed to meet this demand.

The 1281 delivers power via a Type A connector at 1.97A (max) and 5V DC, enabling the charging of PEDs including, but not limited to, Apple (all three tiers), compatible Android and Windows devices, in addition to supporting BC 1.2 and Chinese Telecommunications Industry Standard YD/T 1591-2009.

The soft light guide delivers an even spread of light with a low energy input, ensuring that passengers can easily

identify, locate and insert their USB plug. The soft light guide colour is also customisable, as is an optional decal print; allowing airlines to reflect their brand and enhance the overall aesthetic of the cabin. A non-light guide version is also available.

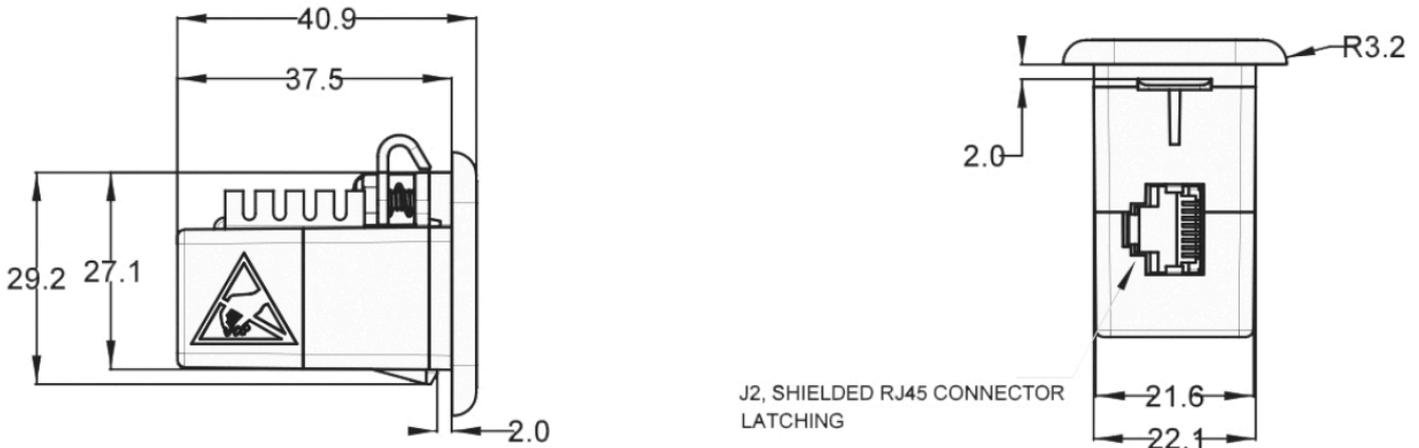
With a Mean Time Between Failures (MTBF) calculated in excess of 65,000 flight hours, the 1281 is a reliable Charging Downstream Port (CDP-100 variant). The 1281 has been designed with system flexibility in mind and can accept 12V-32V (40V max) DC input allowing a broad range of installation options. Most importantly for airlines, the 1281 provides durable and cost effective lifetime use. In the unlikely event of the unit requiring replacement, the 1281 has been designed for simple, rapid on-wing replacement and is cost neutral compared to traditional technologies.

CUSTOMER SATISFACTION

- Easy charging for passenger devices
- Supports charging for smart phones and tablets including Apple (all three tiers) plus Android and Windows devices
- Light guide for easy location and insertion
- USB data for passenger interface

AIRLINE PROPOSITION

- MTBF calculated in excess of 90,000 hours
- Easy on-wing replacement
- Flexibility from 12V to 32V (40 max) input
- Customisable light guide to support airline branding and cabin aesthetics
- Optional decal print that can be tailored to airline requirements



1281 TECHNICAL SPECIFICATION

IFPL is an innovative award winning company specialising in the design and manufacture of passenger interface solutions to the global In-flight Entertainment and Connectivity (IFEC) industry.

Twice winner of the prestigious Queen's Award for Enterprise, we are unique in our ability to combine industry leading innovation with manufacturing excellence; through comprehensive in-house capability that enables our clients to work closely with us in transforming ideas, from concept to prototype and then delivered as industrialised, certified and production ready solutions.

PART		
Name	USB CDP	
Number	1281-100-y	
ELECTRICAL CHARACTERISTICS		
Input Voltage	12 to 32VDC	
Nominal Input Current	No Load	0.05A
	Max Load	0.97A at 12VDC
Over Volt Protection?	Yes	
Output Voltage	5VDC	
Output Current	1.85A nominal (1.97A Max)	
Lightpipe Illumination	Luminance	0.05-0.1 Lumens
	Colour	White (Customisable)
USB Charging Schemes Supported	USB Standard BC1.2 Supports non-BC 1.2 Charging Modes by Automatic Selection D+/D- Divider Modes 2.0V/2.7V and 2.7/2.0V D+/D- 1.2V Mode Chinese Telecommunications industry standard YD/T 1591-2009	
USB Interface	USB Type 'A' female intended for PED Connection	
Data Compatibility	USB 2.0 (-100 variant)	
RJU 'hot swappable'?	Yes	
COLOUR		
Standard	Black	
Customisable?	Yes	
OPERATING TEMPERATURE		
Typical	+15°C to +25°C	
Functional	-15°C to +55°C	
MECHANICAL		
Weight	26g	
Reliability	>90,000 Hours	
Housing	Lexan 953A Polycarbonate	
Cut Out Specification	As per Boeing Spec D620Z013-01 Section 8	