

A Few Things to Check before Installation

Thank you for ordering your new card payment point-of-sale. To ensure the installation of your terminal goes smoothly please review and complete this checklist to minimize disruption to your business. In advance of your installation meeting please ensure that the below pre requisites are ready. If there are additional departments, such as IT, within your organisation that may be required to action this, please pass this information to them. If you need additional installations such as Smartlink, which would enable your terminal to be connected to your till, there are some additional requirements that must be available as detailed below.

It's important that you take the time to review this checklist thoroughly to ensure an engineer can complete your installation.

Terminal type	What you need
<p>Portable</p> <p>A Portable/Bluetooth terminal that uses wireless technology to allow you to move the terminal up to 10m from the base unit, whilst connecting over a phone line or the internet.</p>	<p>1x mains electricity supply for the base charging station, within 6 feet (or 2 meters) of the terminal's location.</p> <p>For terminals connected over the internet</p> <ul style="list-style-type: none"> • An internet port within 6 feet (or 2 meters) of the terminal's location <p>For terminals connecting over a telephone line, including those connecting over the internet and requiring a phone line for back up.</p> <ul style="list-style-type: none"> • One telephone line per terminal, within 6 feet (or 2 meters) of the terminal's location <p>For the best performance, ask your phone line provider to maximise your line strength. Please refer to page two for more information on connection via broadband.</p>
<p>Mobile</p> <p>A terminal connected through a mobile network, using our multi carrier SIM card.</p>	<p>1 x mains electricity supply within 6 feet (or 2 meters) of the terminal location for the base charging station.</p> <p>If you're having difficulties using your mobile phone at your location, you might consider another type of terminal connection.</p>
<p>Counter-top –and/or PIN Pad - Suitable for Smartlink Integration also</p> <p>A fixed payment terminal which connects over a phone line or broadband</p>	<p>1 x mains electricity supply within 6 feet (or 2 meters) of the terminal location.</p> <p>For terminals connecting over the internet</p> <ul style="list-style-type: none"> • An internet port within 6 feet (or 2 meters) of the terminal's location <p>For terminals connecting over a telephone line, including those connecting over the internet and requiring a phone line for back up.</p> <ul style="list-style-type: none"> • One telephone line per terminal, within 6 feet (or 2 meters) of the terminal's location <p>For the best performance, ask your phone line provider to maximise your line strength. Please refer to page two for more information on connection via broadband.</p> <p>For Smartlink integrations connecting till and terminal via USB or Serial Port</p> <ul style="list-style-type: none"> • One available USB or Serial port on the associated till
<p>Portable - Wi-Fi – Suitable for Smartlink Integration also</p> <p>A portable terminal that uses Wi-Fi wireless technology. The signal range can vary from router to router.</p>	<p>1 x mains electricity supply within 6 feet (or 2 meters) of the terminal's location.</p> <p>Please consult your router's manual for further information.</p> <p>A Wi-Fi network available in the venue with the following security:</p> <ul style="list-style-type: none"> • For Home Wi-Fi/Small Business Wi-Fi network – WPA/WPA2 encryption • For Enterprise/Managed Access Wi-Fi network – authentication with EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAPv0 to RADIUS server • Login/password process caters for a standard RADIUS server interaction with no web login page • The terminal should be connected to a separate private Wi-Fi network, not available for public use • iWL258 Wi-Fi terminals can only be connected to 2.4 GHZ wireless frequency <p>Please refer to page two for more information on connection via broadband.</p>

For all counter-top and portable devices that will connect over the internet:

When data is sent or received over the internet, it is sent to an IP (Internet Protocol) address and a specific port. Please confirm with your internet provider that the ports listed below are open and the necessary IP addresses are allowed through your network. It is likely these will be allowed unless effort has been made to restrict access to certain addresses.

A list of the necessary ports and IP addresses are shown in the tables below.

For Customers using DHCP - ensure a correct DNS1 & DNS2 address is passed from the router/DHCP server. It is recommended that DNS1 & DNS2 are populated.

For Customers using Static IP -The following details are required: Static IP address, IP Gateway, Subnet Details and DNS address. 2 DNS server addresses need to be provided to the Engineer. If a secondary DNS address is not known, a public DNS can be used.

Firewall configuration needs to include a DNS address access. The MAC address of the terminal can be provided by the engineer at the time of installation if required for Firewall Configuration.

For Smartlink installations, till and terminal also need to communicate together via 6 different ports. Firewall rules must ensure these ports are not blocked. The 6 additional ports are detailed at the bottom of the table below.

Ingenico			
Application	URL	IP Address	Port Number
Mandatory Applications			
Ingenico TMS	INGeTMS.elavon.com	193.155.119.53	4001
		195.245.90.103	
Authorisation and Settlement	ipconex.elavon.com	195.245.90.61	7262
		193.155.119.61	
Customisable Applications (if applicable)			
Fanfare	eu.synchronicity.elavon.com	195.245.90.61	443
		193.155.119.61	
Gift Card - Savvy TLS1.2, primary connection	ssl9.tnsi.eu.com	188.94.133.139	46328 & 45843
Gift Card - Savvy TLS1.2, secondary connection		188.94.132.11	
Global Blue - Primary	N/A	195.177.228.189	443
Global Blue - Secondary		195.177.228.188	
Smartlink - Firewall Rules			
Printing	Terminal Initiated	Network Specific	5187
DoTransaction	Till Initiated	Network Specific	5188
GetPedState	Till Initiated	Network Specific	5189
Events	Terminal Initiated	Network Specific	5190
DoSettlement	Till Initiated	Network Specific	5191
DoMobileTopUpSettlement	Till Initiated	Network Specific	5192