

Mobile Printer Family





Raise Productivity to the Next Level with Mobile Printers

Mobile printers play an integral part in the workflow of many industries, especially where quick and accurate printing on demand is required at various locations. Whether printing receipts for meter readings, e-citations, mPOS, or for direct store delivery, or even labels for mark down, shipping and receiving, mobile printers can increase efficiency for any printing on demand.

To assess the need for a mobile printing solution, here are some points to consider:

- How often are labels applied within arm's length?
- How often do inaccurate or damaged labels cause interruption to your work?
- Can on-the-go printing reduce the time traveling back-and-forth to a centrally-located stationary printer?

Points to Consider Before Getting Mobile Printers

Before investing in mobile printers, be sure to look at these three points:



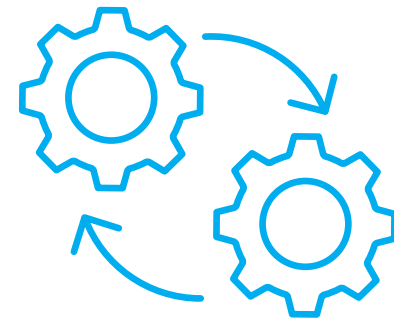
Durability

Printers must be able to withstand accidental falls and drops, resist dust and water for both indoor and outdoor applications.



Ease of Use

A printer that is easy to set up and use will accelerate workflow and boost productivity, thus bringing more value out of your operation.



Compatibility

Hassle-free integration or migration is vital when installing or replacing existing devices.

Why TSC Printronix AUTO ID Mobile Printers?

Rugged Design for Enduring Harsh Environments

Our IP54-certified mobile printers are not only water-resistant and dust-resistant, but have also endured tough drop and vibration tests, including 800 drops in a tumble test, 2.1 meters drop test, and met the MIL-STD-810 standard for the durability to stand strong even in harsh environments.



IP54 Certified



800 DROPS In a Tumble Test



2.1 M Drop Test



MIL-STD-810 Standard

Easy to Set Up and Use

- ❶ Lightweight and compact to be carried around all-day
- ❷ Easy-to-read LCD/LED and/or large function buttons
- ❸ Reliable and secured dual-band Wi-Fi with fast roaming
- ❹ Easy media loading and support media roll up to 67mm (2.64") OD
- ❺ Easy connectivity via MFi Bluetooth® with NFC tap-to-pair
- ❻ Versatile accessories to give support and increase the efficiency of operation



Compatibility Matters

Being able to seamlessly integrate with your system is also a determining factor when purchasing mobile printers. With our software, SDK and professional technical support, our mobile printer's compatibility with your system will be enhanced through quicker integration, efficient development, faster deployment, and increased interoperability.

- OPOS drivers for POS application
- Compatible with CPCL, ESC-POS and major printer languages
- Software Development Kit (SDK) for developer to build a custom app

Mobile Printer Family

Depending on your requirements, we offer a variety of mobile printers that cater to your needs.



Alpha-2R

The Alpha-2R is a lightweight printer capable of working with any mobile printing application where you need access to quick, simple receipts or tickets.



TDM Series

The TDM Series features a rugged palm-sized design for easy, on-the-go printing for up to 42 hours on a single battery charge.



Alpha-3R

The Alpha-3R is a lightweight printer capable of printing labels on demand. It is built for durability and can withstand falls of up to 5 feet and keeps printing.



Alpha-30R

The Alpha-30R mobile printer is user-friendly and drop-resistant. It enhances customer service, boosts productivity and improves shopper experience in retail stores. Mobile printing operations can be carried out much faster and with more accuracy.



Alpha-30L/40L

The Alpha-30L and Alpha-40L mobile printers propel you into the next generation of smart, enhanced technology solutions for industrial-grade label printing applications.



Alpha-40L RFID

The Alpha-40L RFID features a user-friendly, heavy-duty and drop-resistant design, enhancing workers' mobility in challenging environments. The rugged design is ideal for direct store delivery and industrial field service.

Product Specifications

We offer a variety of products, ranging from 2-inches to 4-inches, different print widths, different levels of durability, different media types, and many other specifications to suit your printing needs.












	TDM-20	TDM-30	Alpha-2R	Alpha-3R	Alpha-30R (Basic)	Alpha-30R (Premium)	Alpha-30L	Alpha-40L	Alpha-40L RFID*
Type	Mobile Receipt						Mobile Label		
Print Volume	Low printing volume		Medium printing volume			High printing volume			
Print Width	48 mm / 2"	72mm / 3"	48 mm / 2"	72mm / 3"			104mm / 4"		
Media Type	Receipt, selected label					Receipt, label	Label, receipt		Label, RFID label, receipt
Max. Print Speed	4 ips				5 ips	6 ips	5 ips		
Battery Capacity	1130 mAh	3080 mAh (Optional 3030 mAh smart battery)	1620 mAh	2500 mAh	3080 mAh	3030 mAh (Smart battery)		6200 mAh (Smart battery)	
Media OD	30mm / 1.18	40mm / 1.57"	50mm / 1.96"	Receipt: 57mm / 2.25" Label: 55mm / 2.16	57mm / 2.24"	57mm / 2.24"	67mm / 2.64"		
Weight	215g / 0.47lbs	375g / 0.83 lbs	350g / 0.77lbs	550g / 1.21lbs	650g / 1.43lbs	650g / 1.43lbs	745g / 1.64lbs	985g / 2.17lbs	1025g / 2.26lbs
IP Protection	IP-42			IP-54 with case	IP-54	IP-54	IP-54		
Tumble Test	500 falls from 0.5m		N/A		800 falls from 1m		500 falls from 1m		
Drop Test	1.8m		1.5m		2.1m		1.8m		
Military Standard	MIL-STD-810G drop test		N/A		MIL-STD-810G drop and vibration test				
Linerless Option	Yes			No	Yes				No
Interface	USB 2.0, 802.11 a/b/g/n with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	USB 2.0, 802.11a/b/g/n with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	USB 2.0, 802.11a/b/g/n*, Bluetooth 4.0*, MFi Bluetooth 5.0, NFC*, RS-232*	USB 2.0, 802.11a/b/g/n*, Bluetooth 4.0*, MFi Bluetooth 5.0, RS-232*	Type C USB 2.0, 802.11 a/b/g/n/ac with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	Type C USB 2.0, 802.11 a/b/g/n/ac with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	Type C USB 2.0, 802.11 a/b/g/n/ac with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	Type C USB 2.0, 802.11 a/b/g/n/ac with Bluetooth 4.2, MFi Bluetooth 5.0, NFC	Type C USB 2.0, 802.11 a/b/g/n/ac with Bluetooth 4.2, MFi Bluetooth 5.0, NFC

*Optional feature, please contact your local sales representative









Select the Printers Tailored to Your Needs

Here are recommendations for mobile printers based on vertical markets.

Printer	Vertical Markets	Type	Media Type	Print Width	Max. Print Speed	Battery Capacity	Media OD	Weight	IP Protection	Tumble Test	Drop Test	Military Standard	Linerless Option
 TDM-20	Retail Warehouse & logistics Entertainment & hospitality Public utilities Transportation Healthcare	Mobile receipt	Receipt, selected label	48 mm / 2"	4ips	1130mAh	30mm / 1.2"	215g / 0.47lbs	IP-42; IP-54 with case	500 falls from 0.5m; 500 falls from 1m with case	1.8m; 2.5m with case	MIL-STD-810G drop test	Yes
 Alpha-2R	Retail Warehouse & logistics Entertainment & hospitality Public utilities Transportation	Mobile receipt	Receipt, selected label	48 mm / 2"	4ips	1620 mAh	50mm / 1.96"	350g / 0.77lbs	IP-42; IP-54 with case	N/A	1.5m; 2m with case	N/A	Yes
 TDM-30	Retail Warehouse & logistics Entertainment & hospitality Public utilities Transportation Healthcare	Mobile receipt	Receipt, selected label	72mm / 3"	4ips	3080 mAh (Optional 3030 mAh smart battery)	40mm / 1.6"	375g / 0.83 lbs	IP-42; IP-54 with case	500 falls from 0.5m; 500 falls from 1m with case	1.8m; 2.5m with case	MIL-STD-810G drop test	Yes
 Alpha-3R	Retail Warehouse & logistics Entertainment & hospitality Public utilities Transportation	Mobile receipt	Receipt, selected label	72mm / 3"	4ips	2500 mAh	Receipt: 57mm / 2.25" Label: 55mm / 2.16"	550g / 1.21lbs	IP-54 with case	N/A	1.5m	N/A	No
 Alpha-30R (Basic)	Retail Warehouse & logistics Entertainment & hospitality Healthcare Manufacturing	Mobile receipt	Receipt, selected label	72mm / 3"	5ips	3080 mAh	57mm / 2.24"	650g / 1.43lbs	IP-54 with and without case	800 falls from 1m; 1000 falls with case	2.1m; 2.5m with case	MIL-STD-810G drop and vibration test	Yes
 Alpha-30R (Premium)	Retail Warehouse & logistics Healthcare Manufacturing	Mobile receipt	Receipt, label	72mm / 3"	6ips	3030 mAh (Smart battery)	57mm / 2.24"	650g / 1.43lbs	IP-54 with and without case	800 falls from 1m; 1000 falls with case	2.1m; 2.5m with case	MIL-STD-810G drop and vibration test	Yes
 Alpha-30L	Retail Warehouse & logistics Entertainment & hospitality Healthcare Manufacturing	Mobile Label	Label, receipt	72mm / 3"	5ips	3030 mAh (Smart battery)	67mm / 2.64"	745g / 1.64lbs	IP-54 with and without case	500 falls from 1m	1.8m; 2.5m with case	MIL-STD-810G drop and vibration test	Yes
 Alpha-40L	Retail Warehouse & logistics Healthcare Manufacturing	Mobile Label	Label, receipt	104mm / 4"	5ips	6200 mAh (Smart battery)	67mm / 2.64"	985g / 2.17lbs	IP-54 with and without case	500 falls from 1m	1.8m; 2.5m with case	MIL-STD-810G drop and vibration test	Yes
 Alpha-40L RFID	Retail Warehouse & logistics Entertainment & hospitality Healthcare Manufacturing Food & beverage	Mobile RFID Label	Label, RFID label, receipt	104mm / 4"	5ips	6200 mAh (Smart battery)	67mm / 2.64"	1025g / 2.26lbs	IP-54 with and without case	500 falls from 1m	1.8m; 2.5m with case	MIL-STD-810G drop and vibration test	Yes













Select the Printers Tailored to Your Needs

Whether you're printing barcodes, labels, receipts, tags or tickets, we make it easy to help you to select the right printer to meet your requirements ranging from levels of duty cycle, media types, weight or size restraints, to durability.

Application requirement	Application	Print Width	Media Type	Recommended Model
<ul style="list-style-type: none"> High-duty cycle environment Optimized for labels, can print receipts Durable mobile printer 	<ul style="list-style-type: none"> Inventory management, cycle count Receiving, put-Away, reverse logistics Picking, staging, packing, shipping Price display compliance Click and collect (BOPIS) Cross-docking Raw materials Finished goods 	104mm / 4"	Receipts and / or labels	Alpha-40L 
		72mm / 3"	Receipts and / or labels	Alpha-30L 
<ul style="list-style-type: none"> High-duty cycle environment Optimized for receipts, can print labels Most rugged mobile printer 	<ul style="list-style-type: none"> Inventory management, cycle count Receiving, put-away, reverse logistics Picking, staging, packing, shipping Quick and efficient checkout Proof of pickup and delivery Direct store delivery Cross-docking Fleet management and maintenance Ticketing In-cabin service 	72mm / 3"	Receipts and / or labels	Alpha-30R 
<ul style="list-style-type: none"> Medium-duty cycle environment Optimized for receipts, can print labels Durable mobile printer 	<ul style="list-style-type: none"> Quick and efficient checkout Proof of pickup and delivery Direct store delivery Fleet management and maintenance Ticketing In-cabin service Field sales Field service 	72mm / 3"	Receipts and / or labels	Alpha-3R 
		48mm / 2"	Receipts and / or labels	Alpha-2R 
<ul style="list-style-type: none"> Low-duty cycle environment Optimized for receipts, can print labels Small, lightweight mobile printer 	<ul style="list-style-type: none"> Quick and efficient checkout Proof of Pickup and Delivery Fleet management and maintenance Ticketing In-store service In-cabin service Field service Government e-citation 	72mm / 3"	Receipts	TDM-30 
		48mm / 2"	Receipts	TDM-20 
<ul style="list-style-type: none"> RFID tag encoding and printing at the point of application Durable mobile printer Rugged mobility Versatile media types, RFIDs, labels and receipts 	<ul style="list-style-type: none"> In-store tagging Direct to store or consumer delivery Closed-loop airline baggage tracking Remote tagging of in-field asset Laboratory sample and drug management Device and asset management 	104mm / 4"	Receipts and / or labels and / or RFID tags	Alpha-40L RFID 

Versatile Accessories

We provide a full line of value-added accessories to ensure the items can empower diverse operations in many different aspects.

Printer Model		Alpha-30R		Alpha-30L	Alpha-40L & Alpha-40L RFID	Alpha-2R	Alpha-3R	TDM-20	TDM-30
	Version	Basic	Premium	3"	4"	2"	3"	2"	3"
	USB Cable	Type C	Type C	Type C	Type C	Mini	Mini	Micro B	Micro B
	USB to RS-232 Converter Cable	N/A	N/A	N/A	N/A	✓	✓	N/A	N/A
Carrying and Protection Solutions	Belt Clip 	✓	✓	✓	✓	✓	✓	✓	✓
	Protective Case W/ Shoulder Strap 	✓	✓	✓	✓	✓	✓	✓	✓
	Media Core Adapter 0.75"	✓	✓	✓	✓	N/A	N/A	N/A	N/A
	Media Core Adapter 0.75"-1"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Media Adapter /Spacer Kit 	N/A	N/A	N/A	N/A	✓	N/A	✓	✓
	Media Hanger 	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
Forklift and Vehicle Solutions	Vehicle Mount Adaptor (Forklift Mount / Cart Mount) 	N/A	✓	✓	✓	✓	N/A	✓	✓
	12-24V DC Vehicle Power Adaptor 	✓	✓	✓	✓	✓	✓	✓	✓
	12-60V DC Vehicle Power Adaptor 	✓	✓	✓	✓	✓	✓	✓	✓
	DC-to-DC Battery Eliminator 	✓	✓	✓	✓	N/A	N/A	N/A	✓
	Power Adapter (12V 1A)	✓	✓	N/A	N/A	✓	✓	✓	✓
Charging Solutions	Power Adapter (12V 2A)	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A
	1-Slot Battery Charger 	✓	✓	✓	✓	✓	✓	✓	✓
	4-Slot Battery Charger 	✓	✓	✓	✓	✓	✓	✓	✓
	1-Slot Docking Cradle 	N/A	✓	✓	✓	N/A	N/A	✓	✓
	4-Slot Docking Cradle 	N/A	✓	✓	✓	N/A	N/A	✓	✓
	Regular Battery	3080mAh	N/A	N/A	N/A	1620mAh	2500mAh	1130mAh	3080mAh
	Smart Battery	N/A	3030mAh	3030mAh	6200mAh	N/A	N/A	N/A	3030mAh

Compatible Accessories



In addition, we have a variety of accessories that can be shared among different models, making these items more cost effective.

Printer Model		Alpha-2R	TDM-20	TDM-30	Alpha-3R	Alpha-30R	Alpha-30R	Alpha-30L	Alpha-40L
Version		2"	2"	3"	3"	Basic	Premium	3"	4"
USB Cable		Mini	Micro B	Micro B	Mini	Type C	Type C	Type C	Type C
USB TO RS-232 Converter Cable		●	N/A	N/A	●	N/A	N/A	N/A	N/A
Carrying and Protection Solutions	Belt Clip	N/A	▲	▲	N/A	◆	◆	■	■
	Protective Case W/Shoulder Strap	N/A	N/A	N/A	N/A	★	★	N/A	N/A
	Media Core Adapter 0.75"	N/A	N/A	N/A	N/A	●	●	●	●
Forklift and Vehicle Solutions	12-24V DC Vehicle Power Adaptor	◎	◎	◎	◎	◎	◎	◎	◎
	12-60V DC Vehicle Power Adaptor	□	□	□	□	□	□	□	□
	DC-to-DC Battery Eliminator	N/A	N/A	◇	N/A	◇	◇	◇	N/A
Charging Solutions	Power Adapter (12V 1A)	*	*	*	*	*	*	N/A	N/A
	Power Adapter (12V 2A)	N/A	N/A	N/A	N/A	N/A	N/A	+	+
	1-Slot Battery Charger	✦	N/A	⌘/✦	N/A	⌘/✦	⌘/✦	⌘/✦	⌘
	4-Slot Battery Charger	△	N/A	❖/△	N/A	❖/△	❖/△	❖/△	❖
	1-Slot Docking Cradle	N/A	N/A	N/A	N/A	N/A	▲	▲	▲
	4-Slot Docking Cradle	N/A	N/A	N/A	N/A	N/A	★	★	★
	Regular Battery	N/A	N/A	3080mAh	N/A	3080mAh	N/A	N/A	N/A
Smart Battery	N/A	N/A	3030mAh	N/A	N/A	3030mAh	3030mAh	N/A	

Note: Same symbol within the same accessory represents compatibility among the models.

Success Stories

e-Commerce Warehouse



Alpha Series Mobile Printers Facilitate Warehouse Operations at Full Throttle

Overview

One of the leaders of Taiwan's e-commerce industry is expanding its warehouse and logistic networks with additional label printers to support operational surges with efficiency. Given its current WMS (Warehouse Management System) system bundle, the company could not easily migrate to other branded devices.

Solution

TSC Printronix Auto ID's engineers studied, verified, and customized the firmware to enable Alpha-40L and Alpha-4L mobile printers to understand the current WMS system language.

User Benefits

- Overcome system constraints
- Resolve printer supply shortage
- Easy for operators and IT staff to use and manage

Healthcare



Alpha-3R Mobile Printers Accelerate Specimen Collection and Management

Overview

Nurses have to deal with a large number of specimens when rotating through the ward, and mislabeling specimens could lead to medical disputes. The hospital needs to print out patient information and label each specimen immediately after collecting the samples from patients to prevent mislabeling.

Solution

The Alpha-3R mobile printers are mounted on medical carts and are connected to HIS (Hospital Information System) to print out required information on the spot.

User Benefits

- Overcome system constraints
- Resolve printer supply shortage
- Easy for operators and IT staff to use and manage

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