HLTQ series

Industrial PC for shop floor applications

AtlasCopco

Smart Connected Assembly

Specification

Traceability

Set-up

Smart Connected Assembly

Quality Assurance

Line Management

Error Proofing

Production

Atlas Copco is a total solutions provider.

The advent of Industry 4.0 brings rapid changes and new challenges. With our Smart Connected Assembly you maintain quality control in complex production systems and increase uptime in production critical operations.

To help facilitating your zero defect strategy the Industrial PC "HLTQ" complements our error proofing product portfolio for shop floor applications.

Three core values with the HLTQ series

Human Interaction

Improved Productivity

Increased Uptime

The solution for visualization and control on the shop floor

With their robust design and high-performance components the HLTQ (Hard Line Terminal) series are state-of-the-art devices for your industrial purposes.
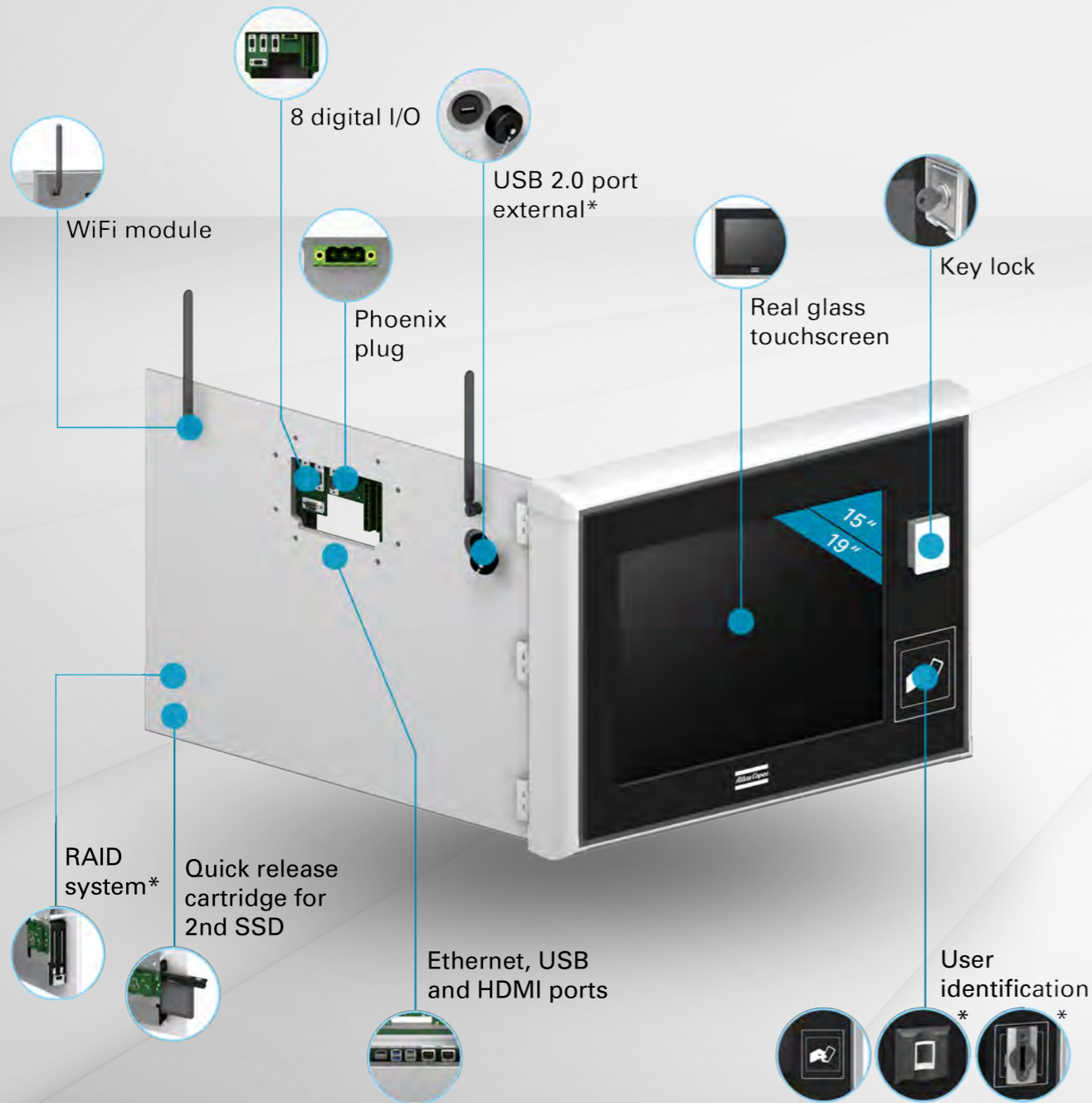
You can choose between 4 standard models that are pre-configured and available off-the-shelf, or a customized version which can be configured individually based on available options.

In combination with the Atlas Copco Single Quality Solution software the HLTQ series visualizes and controls your entire assembly process on the shop floor - maybe even improves it.

Versatile Technology

WiFi module

8 digital I/O

USB 2.0 port external*

Phoenix plug

Real glass touchscreen

Key lock

15"
19"

RAID system*

Quick release cartridge for 2nd SSD

Ethernet, USB and HDMI ports

User identification * *

Sustainable Performance

The integrated AMD Quad Core processor with 2.4 GHz, up to 8 GB RAM and the possibility/option to retrofit a second Solid State Disk (SSD) drive constitute high fault tolerance on the one hand and high performance on the other hand.
The utilization of SSD drives in combination with the HLTQ's LED technology and passive cooling concept makes the HLTQ series an uncompromising energy efficient device.

Unconditional Operability

Shock resistant components and the resistive glass touchscreen, which is operable with gloves, make the HLTQ series a reliable and user-friendly device - even in a tough work environment.

ACME Station A01
ACME Single Quality Solution

Mount bearing caps | Mount cover | Check casing | Function test

16-04-22

Prod
H4K06YK1C

5.KC3-07.11.14

5.KC3-07.11.14_03

5.KC3.07.11.14_01

Manual
Release

Operator Update

Logic Scanner

Tensor

Uncompromising Connectivity

With its multiple interfaces like Ethernet, WiFi, USB, HDMI or digital I/O and the connectivity to many devices such as tool controllers, scanners, stack lights or Pick by Light shelves the HLTQ series can be seen as the center of an entire assembly station.

Efficient Service

Due to its plug & play character with the fast lock flange mounting and unmounting is quick and easy. Even in assembly stations that are hard to access service and maintenance personnel can still perform ergonomically.

Technical Data

		Standard (15" I 19")	Configurable (15" I 19")
CPU Type	AMD® G-Series GX-424CA (Quad-Core 2.4 GHz), L2 2 MB, 25 W	•	•
Motherboard	NANO-KBN-i1-4241-R10	•	•
RAM	4 GB, DDR3, FSB 1600/1333 MHz	–	•
	8 GB, DDR3, FSB 1600/1333 MHz	•	optional
Mass storage	64 GB SSD, 2.5", SATA 3 interface, quick release cartridge	–	•
	128 GB SSD, 2.5", SATA 3 interface, quick release cartridge	• [1]	optional
	256 GB SSD, 2.5", SATA 3 interface, quick release cartridge	–	optional
Ports	1x LAN Gigabit Intel i210-AT, with NCSI support 1x LAN Gigabit Intel i211-AT 2x USB 3.0, 2x USB 2.0 (internal accessible) 5x COM RS232, each with 5V configurable 1x RS232 / RS422 / RS485, each with 5V configurable Digital Input: 8 x 24VDC Digital Output: 8 x 24VDC, 100mA (single) or 400mA (complete) loadable 1x extension connector (RJ45) - 7 extension modules connectable 1x miniPCI express slot	•	•
	1x USB 2.0 (external accessible)	–	optional
Ext. Monitor port	1x HDMI 1.4a	•	•
Display	**15":** LED TFT, 4:3, 1024 x 768 pixel, brightness ≤ 400 cd/m²	•	•
	19": LED TFT, 5:4, 1280 x 1024 pixel, brightness ≥ 350 cd/m²	•	•
Touch	glass, resistive	•	•
RAID system	RAID1 configuration (mirrored system, quick release cartridge for two SSD's and second 2.5" SSD, min. 64 GB necessary, needs miniPCI express slot)	–	optional
WiFi	WLAN Client Interface (802.11 a/b/g/n)	• / – [2]	optional
User identification	RFID reader 13,56 MHz and 125 kHz	•	•
	LEGIC reader with ID badge holder	–	optional
	Fingerprint reader	–	optional
	Mifare reader	–	optional
	Euchner reader	–	optional
	Euchner electronic key system EKS (available on demand)	–	optional
Lock	Rittal standard	•	•
Power supply	100 – 240 VAC (Phoenix plug) No powercable is included in delivery!	•	•
Power rating	max. 70W	•	•
Current rating	max. 1A	•	•
Mounting	Adapter console Rittal CP 60 (holder for mounting bracket included)	•	•
Housing	Aluminum	•	•
Protection class	IP44 (regarding EN 60529)	•	•
Operating system	Windows Embedded Standard 7: 64 Bit	•	optional
	Windows 7 Pro: 32 Bit / 64 Bit	–	optional
	Windows Embedded Standard 7: 32 Bit / 64 Bit	–	optional
Size / Weight	**15":** 484 x 368 x 70 mm / 12 kg / 26,5 lb (without options, weight of configured options to be added)	•	•
	19": 583 x 434 x 70 mm / 15 kg / 33,0 lb (without options, weight of configured options to be added)	•	•

Type	Model	Ordering No.
Standard	HLT15Q	8434 2300 00
Standard [2]	HLT15Q WiFi	8434 2300 10
Standard	HLT19Q	8434 2300 20
Standard [2]	HLT19Q WiFi	8434 2300 30
Configurable	HLT15Q	[3]
Configurable	HLT19Q	[3]

[1] 2nd SSD and RAID system can be retrofit
[2] With or without WiFi available
[3] For individual configurations please contact your local sales

Single Quality Solution

Operator guidance software

Entry level standalone solution	Set of standard functionalities	Plug & Play	Easy to configure

As a complementary product to the HLTQ series the Single Quality Solution is a comprehensive solution that drives quality, process reliability and transparency, as well as product safety at your assembly stations. It guides your tool operators through the assembly process leaving no room for error or oversight.

The Single Quality Solution manages the assembly process of many different variations of your products and is ideally suited for sub assembly stations, backup stations, and repair areas.

Type	Ordering No.
License for 1 station	8434 2380 00

Committed to sustainable productivity

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call — Sustainable Productivity.

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