

iScale Modular In-Store Connectivity

This document describes scale connectivity options for ADC's iScale in-store thin-server, from legacy serial scales through to the latest Ethernet and Radio Frequency (RF) scales, from any mix of vendors.

Problem 1: I have many scale brands and models that use different Ethernet, wireless and serial protocols (RS232, RS485 half duplex, RS485 full duplex and RS422) in my store.

ADC Solution: The iScale has zero (for all Ethernet scales), 4 or 8 serial ports, each configurable via a web-browser to provide signals at the scale's protocol. The iScale can support all scale brands & types, including any mix of serial, Ethernet & wireless scales in the store.

Problem 2: I am replacing an older scales management system. Can my existing communications wiring be re-used?

ADC Solution: If the serial scales are pre-wired for a previous scales management system, the existing cabling can generally be re-used.

ADC supplies part numbered adapter cables to connect the home run(s) to iScale's serial RJ45 ports. Alternately, iScale can emulate a Mettler-Toledo 8461 Master scale to your existing scales management system, allowing iScale to be the gateway to Ethernet & wireless scale technology.

Problem 3: New scale types can use Ethernet connection which is preferred for standardization and performance reasons, but the legacy scale equipment uses serial communications.

ADC Solution: For wiring to serial scales, ADC recommends the use of Cat5 Ethernet modular cable and connectors, with a home run to each scale, each terminating at a patch panel in the same rack as the iScale. Your LAN cabling contractors are experienced in this Ethernet style cabling and can use standard Ethernet continuity tools. When the serial scale is replaced by an Ethernet scale in the future, the home run to the scale can be re-used for Ethernet. Alternately, iScale can emulate a Toledo 8461 Master scale to your existing scales management system, allowing iScale to be a gateway to new Ethernet and wireless scale technology.

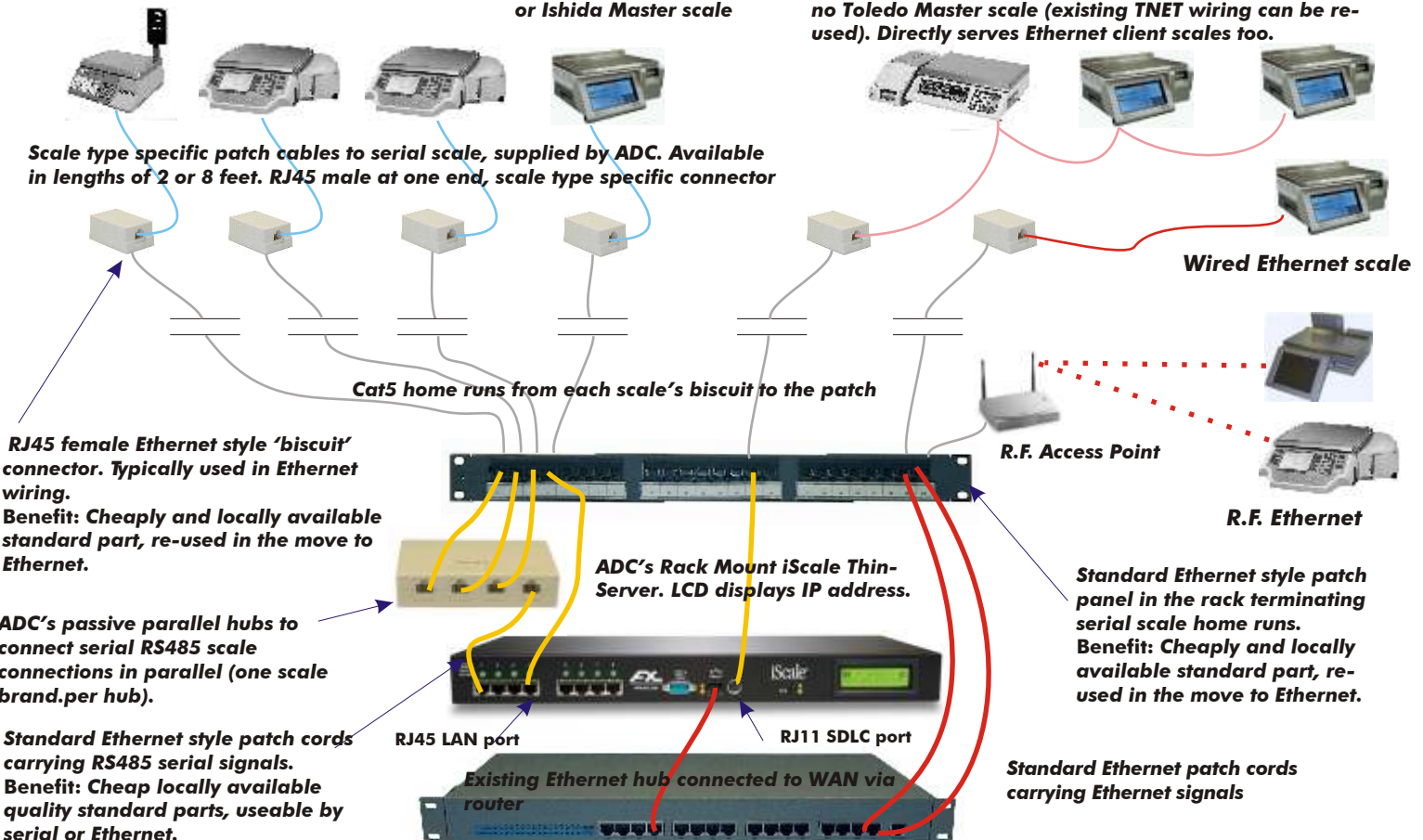
Problem 4: The many scale brands and models each use different serial connectors. RJ11 for Hobart Ultima/Quantum, DB9 for Hobart SP1500, Tijimi for TEC, DB25 for Ishida, etc.

ADC Solution: Scale type specific patch cables are supplied by ADC from a standard parts catalog, each available in lengths of 2 or 8 feet. RJ45 male at one end, scale type specific connector at the other end. ADC has encapsulated the proprietary serial scale connections in a part numbered cable. You don't need to be concerned with pinouts.

Serial Hobart, Digi, TEC or Bizerba scales

Serial Mettler-Toledo or Ishida Master scale

Mettler-Toledo satellite scales served directly by iScale, no Toledo Master scale (existing TNET wiring can be re-used). Directly serves Ethernet client scales too.



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