LSIs and Equipment for High Speed and Diversified Digital Communication Network*
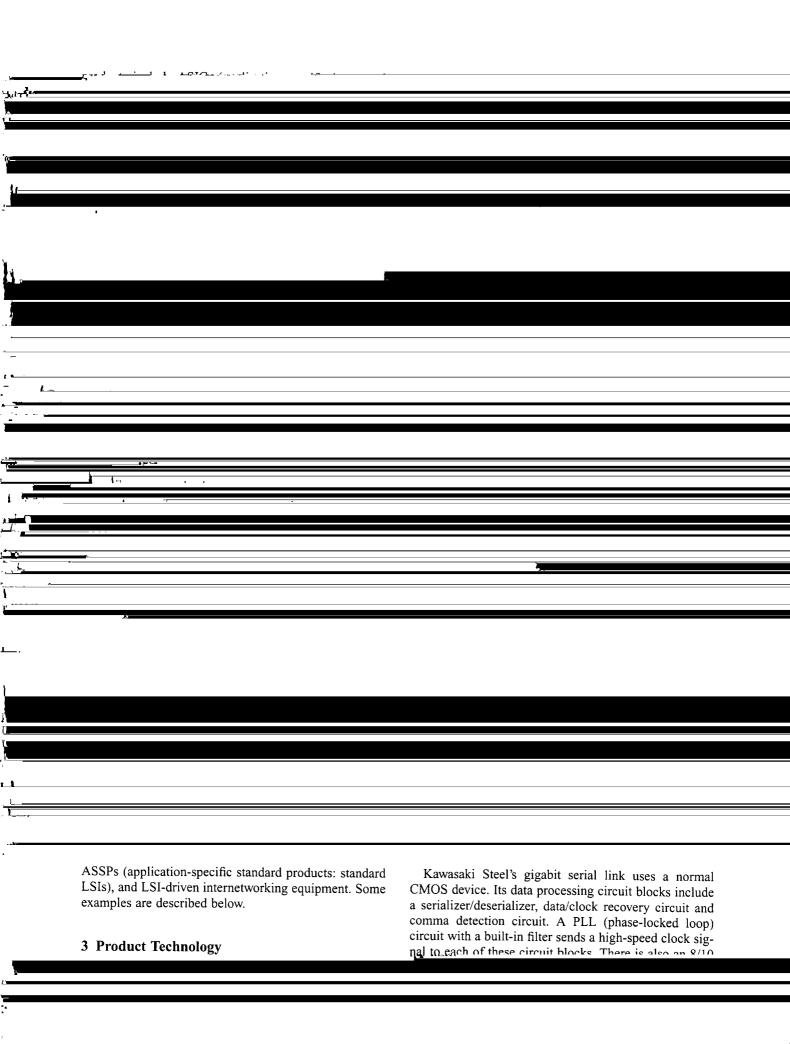
oped countries. PCs have become so widespread that now each office worker has one, and every home has one

PCs, EWSs, other routers and public lines. Networks use several different protocols and different qualities

ASSPs (application-specific standard products: standard LSIs), and LSI-driven internetworking equipment. Some examples are described below.

3 Product Technology

Kawasaki Steel's gigabit serial link uses a normal CMOS device. Its data processing circuit blocks include a serializer/deserializer, data/clock recovery circuit and comma detection circuit. A PLL (phase-locked loop) circuit with a built-in filter sends a high-speed clock signal to each of these circuit blocks. There is also an 8/10

Table 3	TCP/IP engine

Performance	Realized technology
· RFC1122 Host requirement standard	· Parallel and separate processing by week connection type multi

Table 4	Router

	Performance	Realized technology
Secured A2DIS	Layer 3 switching	· Dedicated ASIC for