Data switch Configuration for 1002 access,

N incoming lines

ρN in use, attached to ρN outgoing trunks

$(\rho \sim \frac{1}{3})$

require

$N\rho$ line finders

$N\rho$ first selectors $\Big\}$ per 100 trunks

$N\rho$ second selectors

$\ast$ # switches $= 2 N\rho + N\rho \left(\left[\frac{N\rho - 1}{100} \right] + 1 \right)$

Assume even division of incoming lines among line-finder groups.

To allow for statistical division, should increase all switch counts by factor of $\left(\dfrac{N\rho + \sqrt{N N\rho}}{N\rho} \right)$

(allow for 1σ variation)

T.T. adapter   420   32 ch.   13.10
TT charger   125   8 ch.   23.90
TT ext   65   8 ch. $37.00
                       ─────   sharp G6C   13.00
                        140   ──────
                                                   $50

G6C   5620   6k/mo.
              ~540~
              195

              5620 $\frac{3}{52}$ priority level.

77   new /cabinet

     3   72
 6│ 81   new / G6C   ▷ 9
    13   adapter.   ⟸   ⟨278⟩

    72
    26
    39
   ─────   13.5
    416   41C│862
                     41C
                     1460
                     1288
                     ─────
                     2220